

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE*

FORM APPROVED
OMB NO. 1040-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

TYPE OF WORK

DRILL ☒

DEEPEN ☐

TYPE OF WELL

☐

☐

☒

☒

☐

SINGLE

MULTIPLE

ZONE

ZONE

OIL WELL

GAS WELL

OTHER

2. NAME OF OPERATOR

QUESTAR EXPLORATION & PRODUCTION, CO.

Contact: Rick Canterbury

E-Mail: rick.canterbury@questar.com

3. ADDRESS

11002 East 17500 South Vernal, Utah 84078

Telephone number

Phone 435-781-4362 Fax 435-781-4395

4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*)

At Surface 649789X 2033' FSL 859' FWL, NWSW Section 5, T9S, R24E

At proposed production zone 4436038Y 40-063188 -109-243672

14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*

35.4+/- MILES FROM VERNAL, UTAH

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.
(also to nearest drig, unit line if any)

859' +/-

18. DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft

25' +/-

21. ELEVATIONS (Show whether DF, RT, GR, ect.)

5127.0' GR

16. NO. OF ACRES IN LEASE

1239.79

19. PROPOSED DEPTH

1900'

22. DATE WORK WILL START

ASAP

9. API NUMBER:

43-047-40341

10. FIELD AND POOL, OR WILDCAT

Red Wash South Big Valley 791

11. SEC., T, R, M, OR BLK & SURVEY OR AREA

SEC. 5, T9S, R24E S.L.B.M.

12. COUNTY OR PARISH

Uintah

13. STATE

UT

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

20. BLM/BIA Bond No. ESB000024

UIC Bond No. 965-003-769

23. Estimated duration

10 Days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan
3. A surface Use Plan (if location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

SIGNED

Rick Canterbury

Name (printed/typed) Rick Canterbury

DATE 08/22/2008

TITLE

Regulatory Affairs

(This space for Federal or State office use)

PERMIT NO. 43-047-40341

APPROVAL DATE

Application approval does not warrant or certify the applicant holds any legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

CONDITIONS OF APPROVAL, IF ANY:

BRADLEY G. HILL
ENVIRONMENTAL MANAGER

APPROVED BY

Bradley G. Hill

TITLE

DATE

08-08-08

*See Instructions On Reverse Side

Title 18 U.S.C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

Federal Approval of this
Action is Necessary

RECEIVED
AUG 25 2008

DIV. OF OIL, GAS & MINING

T9S, R24E, S.L.B.&M.

QUESTAR EXPLR. & PROD.

Well location, RWS #12SWD-5-9-24, located as shown in the NW 1/4 SW 1/4 of Section 5, T9S, R24E, S.L.B.&M. Uintah County, Utah.

T8S

T9S

S89°55'E - 2641.32' (G.L.O.)

N89°50'10"W - 2650.50' (Meas.)

1916 Brass
Cap 2.0' High,
Pile of Stone

1916 Brass
Cap 1.0' High,
Pile of Stone

LOT 4

LOT 3

LOT 2

LOT 1

N00°09'E - 2508.00' (G.L.O.)

N00°07'02"W - 2648.24' (Meas.)

S00°13'26"W - 2518.95' (Meas.)

1977 Brass
Cap 0.5' High,
Steel Post

N00°02'23"W - 2637.67' (Meas.)

1977 Brass Cap
0.5' Above 1.5'
High Pile
of Stones

1977 Brass
Cap 0.8' High,
Steel Post

859'

RWS #12SWD-5-9-24
Elev. Ungraded Ground = 5127'

2033'

1977 Brass
Cap 0.5' High,
Steel Post

N89°46'37"W - 2643.10' (Meas.)

N89°55'58"W - 2641.71' (Meas.)

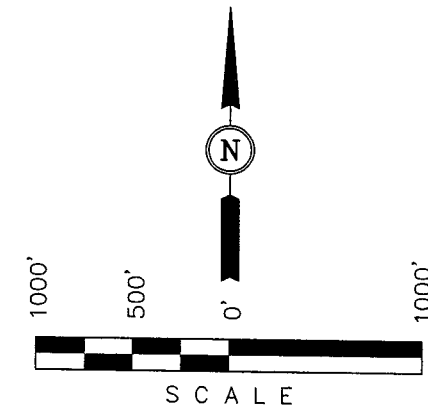
1977 Brass Cap
0.6' High,
Scattered Stones

BASIS OF ELEVATION

BENCH MARK 45EAM LOCATED IN THE NW 1/4 SW 1/4 OF SECTION 6, T9S, R24E, S.L.B.&M. TAKEN FROM THE BONANZA, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5350 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 16131
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

LEGEND:

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)

LATITUDE = 40°03'47.96" (40.063322)

LONGITUDE = 109°14'39.64" (109.244344)

(AUTONOMOUS NAD 27)

LATITUDE = 40°03'48.08" (40.063356)

LONGITUDE = 109°14'37.21" (109.243669)

SCALE 1" = 1000'	DATE SURVEYED: 2-7-08	DATE DRAWN: 2-11-08
PARTY D.R. A.W. C.P.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE QUESTAR EXPLR. & PROD.	

Additional Operator Remarks

Questar Explor. & Prod. Co. proposes to drill a produced fluids disposal well to a total vertical depth of 1,900'. A copy of the Underground Injection Control Permit Application submitted to the Environmental Protection Agency (EPA) is enclosed.

The Application includes: Drilling Plan, Geologic and Proposed Injection Data.

Injection into the well will not commence until EPA provides written permission to inject.

The proposed well will be on the existing location of the RWS 12ML-5-9-24 (API #43-047-37309).

Questar Exploration & Production Co. agrees to the terms and conditions of the lease.

Bond coverage for this well is provided by Bond No.ESB000024. The principal is Questar Explor. & Prod. Co. via surety as consent as provided for the 43 CFR 3104.2. The operation of the Produced Fluid Disposal Well approved by the EPA is covered under Surety Bond 965-003-769.

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. **Formation Tops**

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth, TVD</u>
Uinta	Surface
Green River	1,560'
Casing Point	1,760'
Bird's Nest	1,780'
TD	1,900'

2. **Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones**

The estimated depths at which the top and bottom of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered are as follows:

<u>Substance</u>	<u>Formation</u>	<u>Depth, TVD</u>
Water	Bird's Nest	1,780'

All fresh water and prospectively valuable minerals encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right # A36125 (which was filed on May 7, 1964,) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at Red Wash Central Battery Disposal Site; SWSE, Section 27, T7S, R23E or Wonsits Valley Disposal Site; SWNW, Section 12, T8S, R21E.

DRILLING PROGRAM

3. **Operator's Specification for Pressure Control Equipment:**

It is proposed to drill the surface hole with air or air/mist and no standardized pressure control equipment will be in place. A diverter system in will be in place instead.

4. **Casing Program**

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.
20"	14"	sfc	40'	Steel	Cond.	None	Used
12-1/4"	9-5/8"	sfc	1,760'	47.0	HCP-110	LTC	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
9-5/8"	47.0 lb.	HCP-110	LTC	7,100 psi	9,440 psi	1,213,000 lb.

5. **Cementing Program**

14" Conductor:

Cement to surface with construction cement.

9-5/8" Surface Casing: sfc – 1,760' (MD)

Lead Slurry: 0' – 1000'. 265 sks (630 cu ft) VARICEM (TM) cement, CBM Lite with Bridging Package. Slurry wt: 12.3 ppg, Slurry yield: 2.38 ft³/sk, Slurry volume: 12-1/4" hole + 100% excess.

Tail Slurry: 1000' – 1760'. 225 sks (480 cu ft) VARICEM (TM) cement + 0.2% Super CBL (gas migration control), CBM Lite with Bridging Package. Slurry wt: 12.8 ppg, Slurry yield: 2.12 ft³/sk, Slurry volume: 12-1/4" hole + 100% excess.

Final cement volumes to be calculated from caliper log with an attempt to be made to circulate cement to the surface. A bond log will be run across the zone of interest and across zones as required by the authorized officer to insure protection of natural resources.

6. **Auxiliary Equipment**

- A. Kelly Cock – yes
- B. Float at the bit – no
- C. Monitoring equipment on the mud system – none planned

DRILLING PROGRAM

- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – no
- F. Request for Variance

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 1,760 feet and high pressures are not expected.

1. **Properly lubricated and maintained rotating head** – A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.
2. **Bloolie line discharge 100 feet from wellbore and securely anchored** – the bloolie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.
3. **Automatic igniter or continuous pilot light on bloolie line** – a diffuser will be used rather than an automatic pilot/igniter. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
4. **Compressors located in the opposite direction from the bloolie line a minimum of 100 feet from the wellbore** – compressors located within 50 feet on the opposite side of the wellbore from the bloolie line and is equipped with 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
5. **Kill Fluid to control well** – In lieu of having mud products on location to kill the well for an unanticipated kick, Questar will kill the well with water contained in a 400 bbl tank on site. The 400 bbl water tank will also be storage for surface casing cement water.
6. **Deflector on the end of the bloolie line** – Questar will mount a deflector unit at the end of the bloolie line for the purpose of changing the direction and velocity of the air and cuttings flow into the reserve pit. Changing the velocity and direction of the cuttings and air will preserve the pit liner. In the event the deflector washes out due to erosion caused by the sand blasting effect of the cuttings, there will be no problem because the deflector is mounted on the very end of the bloolie. A washed out deflector will be easily replaced.
7. **Flare Pit** – there will be no need of a flare pit during the surface hole air drilling operation because the bloolie line is routed directly to the reserve pit.

DRILLING PROGRAM

- G. All other operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Drilling below surface casing will be with water based drilling fluids consisting primarily of fresh water, bentonite, lignite, caustic, lime, soda ash and polymers. No chromates will be used. Maximum anticipated mud weight is 8.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

7. **Testing, logging and coring program**

- A. Cores – none anticipated
- B. DST – none anticipated
- C. Logging – GR-SP-Induction-Neutron Density – 80' to TD
GR – Cement bond log surface to 9-5/8" casing shoe
- D. Formation and Completion Interval: Green River/Bird's Nest interval, final determination of completion will be made by analysis of logs.
Stimulation: Stimulation will be designed for the particular area of interest as encountered.

8. **Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards**

No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 850 psi. Maximum anticipated bottom hole temperature is 110° F.

SURFACE USE PLAN OF OPERATIONS
QUESTAR EXPLORATION AND PRODUCTION COMPANY
RWS #12SWD-5-9-24 NWSW (859' FWL & 2033' FSL)
SECTION 5, T9S., R24E., S.L.B. & M
FEDERAL LEASE UTU-73456

1. Existing Roads

Access from Vernal, Utah will be to proceed east and then south on Highway 40 approximately 3.9 miles thru Naples to the junction of State Highway 45. Exit right and proceed southerly and then in a southeasterly direction approximately 31.5 miles on highway 45 to the junction of an existing road to the southwest. Turn right and proceed in a southwesterly direction approximately 2.5 miles to the junction of an existing road to the northwest. Turn right and proceed in a northwesterly direction for a distance of 300 feet to the proposed well location. Total distance from Vernal, Utah to the proposed well location is approximately 37.9 miles.

No improvements are planned to existing roads. See attached topographic maps A and B for location of the access road.

2. New or Reconstructed Access Roads

No new road construction is planned. The existing road to the RWS #12ML-5-9-24 will be used for access to this well. Refer to Topo map B for location of the existing access road to the well from Hatch Reservoir Road.

3. Location of Existing Wells

See the attached Map C for the location of wells within a one mile radius.

4. Location of Existing and/or Proposed Production Facilities

See the Figure #4 for the Production Facility Layout.

5. Location and Type of Water Supply

If water is required for drilling purposes, it will be obtained from Wonsits Valley Water Right # A 36125 (which was filed on May 7th, 1964) or Red Wash Water Right # 49-2153 (which was filed on March 25th, 1960). It has been determined by the Fish and Wildlife Service any water right filed before 1989 is not depleting to the Upper Colorado River System.

6. Construction Materials

No additional materials other than native materials will be required to construct this location.

7. **Methods for Handling Waste Disposal**

This well will be drilled with air. The pit will be constructed to the dimensions shown on Figure #1. Drill hole cuttings will be contained in the reserve pit and will be buried in place when the reserve has been allowed to dry and the location is reclaimed.

8. **Ancillary Facilities**

None are planned.

9. **Wellsite Layout**

The proposed well will be located on an existing location of 12ML-5-9-24. See Figure 1 for proposed location layout.

10. **Plans for Surface Reclamation**

At the time of reclamation, all production facilities will be removed from the location. Any trash will be picked up and removed from the location. The location will be reclaimed by placing fills back into cuts and recontouring the location to original contour or slope of the ground. The topsoil will be reapplied to the location and the location will be reseeded with Seed Mix #1 which is Fourwing Salt bush 3 lbs/acre, Indian Ricegrass, 3 lbs/acre, Needle and Thread, 1 lb/acre and Hycrest Crested Wheatgrass, 4 lbs/acre.

Interim Reclamation: During the operation period of the salt water disposal facility, QEP will reclaim as much of the well location as possible by recontouring (reducing cuts and fills where possible) and reseeding.

11. **Surface Ownership**

Surface ownership is the Bureau of Land Management

Vernal Field Office
170S.,500E
Vernal, Utah, 84078
435-781-4400.

12. **Other Information**

Existing COAs will apply.

A class I archaeological survey was conducted by Montgomery Archaeological Consultants and a copy of the report (MOAC Report No. 05-411) dated October 6th, 2005 is attached to the Surface Use Plan.

A Paleo Reconnaissance Survey completed by Intermountain Paleo-Consulting dated October 18, 2005 (IPC#05-115) is attached to the Surface Use Plan.

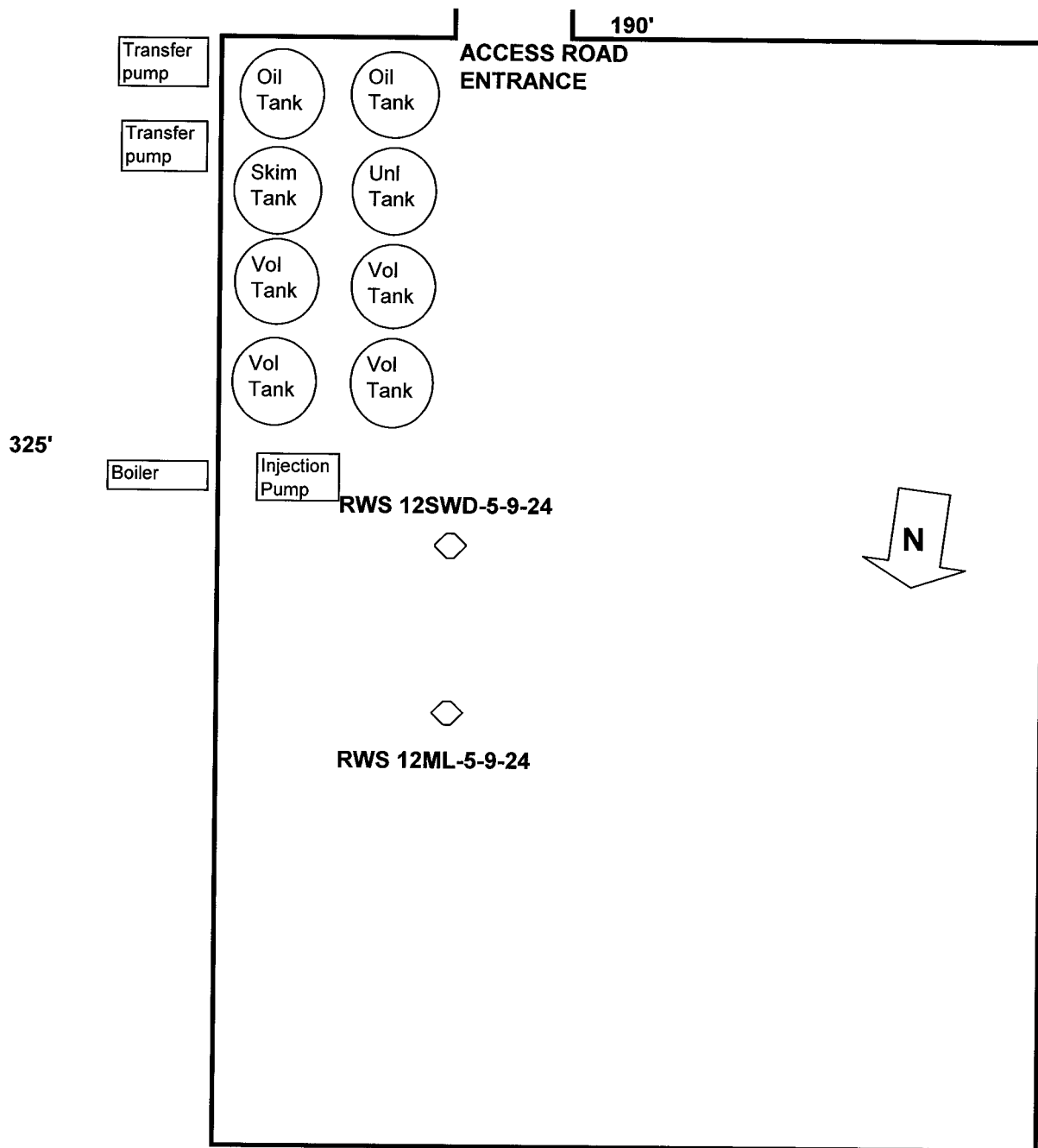


FIGURE # 4
PRODUCTION FACILITY LAYOUT
RWS #12SWD-5-9-24, DISPOSAL WELL
859' FWL, 2033' FSL, NWSW SECTION 5, T9S, R24E
FEDERAL LEASE UTU-73456
Dimensions: 325' X 190'

Lessee's or Operator's Representative:

Rick Canterbury
Questar Exploration & Production Company
11002 East 17500 South
Vernal, Utah 84078
(435) 781-4362

Certification:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil & Gas Orders, the approved plan of operations, and any applicable Notice to Lessees.

Questar Exploration & Production Company will be fully responsible for the actions of their subcontractors.

A complete copy of the approved Application for Permit to Drill will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or Questar Exploration and Production Company are responsible for the operations conducted under this application.

These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Rick Canterbury

August 22nd, 2008
Date

ONSHORE OIL & GAS ORDER NO. 1
 Questar Exploration & Production
 RWS 12SWD-5-9-24

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

<u>Formation</u>	<u>Depth, TVD</u>
Uinta	Surface
Green River	1,560'
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2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

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DRILLING PROGRAM

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4. **Casing Program**

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Wt.	Grade	Thread	Cond.
20"	14"	sfc	40'	Steel	Cond.	None	Used
12-1/4"	9-5/8"	sfc	1,760'	47.0	HCP-110	LTC	New

Casing Strengths:				Collapse	Burst	Tensile (minimum)
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6. **Auxiliary Equipment**

- A. Kelly Cock – yes
- B. Float at the bit – no
- C. Monitoring equipment on the mud system – none planned

DRILLING PROGRAM

- D. Full opening safety valve on the rig floor – yes
- E. Rotating Head – no
- F. Request for Variance

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DRILLING PROGRAM

- G. All other operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1.

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PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

7. **Testing, logging and coring program**

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- B. DST – none anticipated
- C. Logging – GR-SP-Induction-Neutron Density – 80' to TD
GR – Cement bond log surface to 9-5/8" casing shoe
- D. Formation and Completion Interval: Green River/Bird's Nest interval, final determination of completion will be made by analysis of logs.
Stimulation: Stimulation will be designed for the particular area of interest as encountered.

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No abnormal temperatures or pressures are anticipated. No H₂S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 850 psi. Maximum anticipated bottom hole temperature is 110° F.



Questar Exploration and Production Company

11002 East 17500 South

Vernal, UT 84078

Tel 435 789 4300 Fax 435 781 4329

Via Certified Mail:

Return Receipt Requested

August 22nd, 2008

Mr Chuck Tinsley, 8P-W-GW
US EPA, Region VIII
1595 Wynkoop Street
Denver, Colorado 80202-1129

**Re: RWS 12SWD-5-9-24
Underground Injection Control Permit
Class II Type D**

Dear Mr. Tinsley:

Enclosed is an Underground injection Control Permit Application (including all the attachments) to construct the subject well as Class II Type D produced fluid disposal well.

Our goal is to have this well operational as soon as possible.

Please contact me at 435-781-4362 with questions.

Sincerely,

Rick Canterbury
Regulatory Affairs


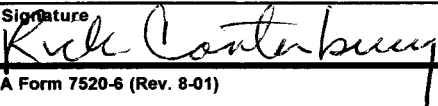
Enclosures

UIC Permit Application (EPA form 7520-6)
Outlined Requirements for Form 7520-6
Attachment B - Area of Review
Attachment C - Corrective Action Plan and AOR Data
Attachment H-2 - Unit Wide Fracture Determination
Attachment H-4 - Water Analysis
Attachment M-1 - Drilling Plan
Attachment M-2 - Survey Plat of the location
Attachment Q - EPA Form 7520-14 Plugging and Abandonment Plan with a diagram
Attachment R - Necessary Resources

CC: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801
Attn: Brad Hill

U.S. Department of Interior
Bureau of Land Management
Vernal Field Office
170 South 500 East
Vernal, Utah 84078

RECEIVED
AUG 25 2008
DIV. OF OIL, GAS & MINING

 United States Environmental Protection Agency Underground Injection Control Permit Application <i>(Collected under the authority of the Safe Drinking Water Act. Sections 1421, 1422, 40 CFR 144)</i>										I. EPA ID Number <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width: 80%;"></td> <td style="width: 10%; text-align: center;">T/A</td> <td style="width: 10%; text-align: center;">C</td> </tr> <tr> <td>U</td> <td></td> <td></td> </tr> </table>					T/A	C	U		
	T/A	C																	
U																			
Read Attached Instructions Before Starting For Official Use Only																			
Application approved mo day year			Date received mo day year			Permit Number			Well ID			FINDS Number							
II. Owner Name and Address							III. Operator Name and Address												
Owner Name Questar Exploration and Production Company							Owner Name Questar Exploration and Production Company												
Street Address 11002 E. 17500 S.					Phone Number (435) 781-4362		Street Address 11002 E. 17500 S.					Phone Number (435) 781-4362							
City VERNAL			State UT		ZIP CODE 84078		City VERNAL			State UT		ZIP CODE 84078							
IV. Commercial Facility			V. Ownership			VI. Legal Contact			VII. SIC Codes										
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			<input type="checkbox"/> Private <input checked="" type="checkbox"/> Federal <input type="checkbox"/> Other			<input checked="" type="checkbox"/> Owner <input type="checkbox"/> Operator			1311										
VIII. Well Status (Mark "x")																			
<input type="checkbox"/> A Operating		Date Started mo day year		<input type="checkbox"/> B. Modification/Conversion				<input checked="" type="checkbox"/> C. Proposed											
IX. Type of Permit Requested (Mark "x" and specify if required)																			
<input checked="" type="checkbox"/> A. Individual		<input type="checkbox"/> B. Area		Number of Existing Wells			Number of Proposed Wells			Name(s) of field(s) or project(s)									
X. Class and Type of Well (see reverse)																			
A. Class(es) (enter code(s))		B. Type(s) (enter code(s))		C. If class is "other" or type is code 'x,' explain					D. Number of wells per type (if area permit)										
II		D																	
XI. Location of Well(s) or Approximate Center of Field or Project												XII. Indian Lands (Mark 'x')							
Latitude			Longitude			Township and Range								<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
Deg	Min	Sec	Deg	Min	Sec	Sec	Twp	Range	1/4 Sec	Feet From	Line	Feet From	Line						
						5	9S	24E	SW	2033	S	859	W						
XIII. Attachments																			
(Complete the following questions on a separate sheet(s) and number accordingly; see instructions)																			
For Classes I, II, III, (and other classes) complete and submit on a separate sheet(s) Attachments A-U (pp 2-6) as appropriate. Attach maps where required. List attachments by letter which are applicable and are included with your application.																			
XIV. Certification																			
I certify under the penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref. 40 CFR 144.32)																			
A. Name and Title (Type or Print) Rick Canterbury, Regulatory Affairs										B. Phone No. (Area Code and No.) (435) 781-4362									
C. Signature 										D. Date Signed 08/22/2008									

RECEIVED

AUG 25 2008

DIV. OF OIL, GAS & MINING

Well Class and Type Codes

Class I Wells used to inject waste below the deepest underground source of drinking water.

Type "I" Nonhazardous industrial disposal well
 "M" Nonhazardous municipal disposal well
 "W" Hazardous waste disposal well injecting below USDWs
 "X" Other Class I wells (not included in Type "I," "M," or "W")

Class II Oil and gas production and storage related injection wells.

Type "D" Produced fluid disposal well
 "R" Enhanced recovery well
 "H" Hydrocarbon storage well (excluding natural gas)
 "X" Other Class II wells (not included in Type "D," "R," or "H")

Class III Special process injection wells.

Type "G" Solution mining well
 "S" Sulfur mining well by Frasch process
 "U" Uranium mining well (excluding solution mining of conventional mines)
 "X" Other Class III wells (not included in Type "G," "S," or "U")

Other Classes Wells not included in classes above.
 Class V wells which may be permitted under §144.12.
 Wells not currently classified as Class I, II, III, or V.

Attachments to Permit Application

Class	Attachments
I new well	A, B, C, D, F, H – S, U
existing	A, B, C, D, F, H – U
II new well	A, B, C, E, G, H, M, Q, R; optional – I, J, K, O, P, U
existing	A, E, G, H, M, Q, R, – U; optional – J, K, O, P, Q
III new well	A, B, C, D, F, H, I, J, K, M – S, U
existing	A, B, C, D, F, H, J, K, M – U
Other Classes	To be specified by the permitting authority

INSTRUCTIONS - Underground Injection Control (UIC) Permit Application

Paperwork Reduction Act: The public reporting and record keeping burden for this collection of information is estimated to average 394 hours for a Class I hazardous well application, 252 hours for a Class I non-hazardous well application, 32 hours for a Class II well application, and 119 hours for a Class III well application. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, DC 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

This form must be completed by all owners or operators of Class I, II, and III injection wells and others who may be directed to apply for permit by the Director.

- I. **EPA I.D. NUMBER** - Fill in your EPA Identification Number. If you do not have a number, leave blank.
- II. **OWNER NAME AND ADDRESS** - Name of well, well field or company and address.
- III. **OPERATOR NAME AND ADDRESS** - Name and address of operator of well or well field.
- IV. **COMMERCIAL FACILITY** - Mark the appropriate box to indicate the type of facility.
- V. **OWNERSHIP** - Mark the appropriate box to indicate the type of ownership.
- VI. **LEGAL CONTACT** - Mark the appropriate box.
- VII. **SIC CODES** - List at least one and no more than four Standard Industrial Classification (SIC) Codes that best describe the nature of the business in order of priority.
- VIII. **WELL STATUS** - Mark Box A if the well(s) were operating as injection wells on the effective date of the UIC Program for the State. Mark Box B if wells(s) existed on the effective date of the UIC Program for the State but were not utilized for injection. Box C should be marked if the application is for an underground injection project not constructed or not completed by the effective date of the UIC Program for the State.
- IX. **TYPE OF PERMIT** - Mark "Individual" or "Area" to indicate the type of permit desired. Note that area permits are at the discretion of the Director and that wells covered by an area permit must be at one site, under the control of one person and do not inject hazardous waste. If an area permit is requested the number of wells to be included in the permit must be specified and the wells described and identified by location. If the area has a commonly used name, such as the "Jay Field," submit the name in the space provided. In the case of a project or field which crosses State lines, it may be possible to consider an area permit if EPA has jurisdiction in both States. Each such case will be considered individually, if the owner/operator elects to seek an area permit.
- X. **CLASS AND TYPE OF WELL** - Enter in these two positions the Class and type of injection well for which a permit is requested. Use the most pertinent code selected from the list on the reverse side of the application. When selecting type X please explain in the space provided.
- XI. **LOCATION OF WELL** - Enter the latitude and longitude of the existing or proposed well expressed in degrees, minutes, and seconds or the location by township, and range, and section, as required by 40 CFR Part 146. If an area permit is being requested, give the latitude and longitude of the approximate center of the area.
- XII. **INDIAN LANDS** - Place an "X" in the box if any part of the facility is located on Indian lands.
- XIII. **ATTACHMENTS** - Note that information requirements vary depending on the injection well class and status. Attachments for Class I, II, III are described on pages 4 and 5 of this document and listed by Class on page 2. Place EPA ID number in the upper right hand corner of each page of the Attachments.
- XIV. **CERTIFICATION** - All permit applications (except Class II) must be signed by a responsible corporate officer for a corporation, by a general partner for a partnership, by the proprietor of a sole proprietorship, and by a principal executive or ranking elected official for a public agency. For Class II, the person described above should sign, or a representative duly authorized in writing.

INSTRUCTIONS - Attachments

Attachments to be submitted with permit application for Class I, II, III and other wells.

- A. AREA OF REVIEW METHODS** - Give the methods and, if appropriate, the calculations used to determine the size of the area of review (fixed radius or equation). The area of review shall be a fixed radius of 1/4 mile from the well bore unless the use of an equation is approved in advance by the Director.
- B. MAPS OF WELL/AREA AND AREA OF REVIEW** - Submit a topographic map, extending one mile beyond the property boundaries, showing the injection well(s) or project area for which a permit is sought and the applicable area of review. The map must show all intake and discharge structures and all hazardous waste treatment, storage, or disposal facilities. If the application is for an area permit, the map should show the distribution manifold (if applicable) applying injection fluid to all wells in the area, including all system monitoring points. Within the area of review, the map must show the following:

Class I

The number, or name, and location of all producing wells, injection wells, abandoned wells, dryholes, surface bodies of water, springs, mines (surface and subsurface), quarries, and other pertinent surface features, including residences and roads, and faults, if known or suspected. In addition, the map must identify those wells, springs, other surface water bodies, and drinking water wells located within one quarter mile of the facility property boundary. Only information of public record is required to be included in this map;

Class II

In addition to requirements for Class I, include pertinent information known to the applicant. This requirement does not apply to existing Class II wells;

Class III

In addition to requirements for Class I, include public water systems and pertinent information known to the applicant.

- C. CORRECTIVE ACTION PLAN AND WELL DATA** - Submit a tabulation of data reasonably available from public records or otherwise known to the applicant on all wells within the area of review, including those on the map required in B, which penetrate the proposed injection zone. Such data shall include the following:

Class I

A description of each well's types, construction, date drilled, location, depth, record of plugging and/or completion, and any additional information the Director may require. In the case of new injection wells, include the corrective action proposed to be taken by the applicant under 40 CFR 144.55.

Class II

In addition to requirement for Class I, in the case of Class II wells operating over the fracture pressure of the injection formation, all known wells within the area of review which penetrate formations affected by the increase in pressure. This requirement does not apply to existing Class II wells.

Class III

In addition to requirements for Class I, the corrective action proposed under 40 CFR 144.55 for all Class III wells.

- D. MAPS AND CROSS SECTION OF USDWs** - Submit maps and cross sections indicating the vertical limits of all underground sources of drinking water within the area of review (both vertical and lateral limits for Class I), their position relative to the injection formation and the direction of water movement, where known, in every underground source of drinking water which may be affected by the proposed injection. (Does not apply to Class II wells.)

- E. NAME AND DEPTH OF USDWs (CLASS II)** - For Class II wells, submit geologic name, and depth to bottom of all underground sources of drinking water which may be affected by the injection.
- F. MAPS AND CROSS SECTIONS OF GEOLOGIC STRUCTURE OF AREA** - Submit maps and cross sections detailing the geologic structure of the local area (including the lithology of injection and confining intervals) and generalized maps and cross sections illustrating the regional geologic setting. (Does not apply to Class II wells.)
- G. GEOLOGICAL DATA ON INJECTION AND CONFINING ZONES (Class II)** - For Class II wells, submit appropriate geological data on the injection zone and confining zones including lithologic description, geological name, thickness, depth and fracture pressure.
- H. OPERATING DATA** - Submit the following proposed operating data for each well (including all those to be covered by area permits): (1) average and maximum daily rate and volume of the fluids to be injected; (2) average and maximum injection pressure; (3) nature of annulus fluid; (4) for Class I wells, source and analysis of the chemical, physical, radiological and biological characteristics, including density and corrosiveness, of injection fluids; (5) for Class II wells, source and analysis of the physical and chemical characteristics of the injection fluid; (6) for Class III wells, a qualitative analysis and ranges in concentrations of all constituents of injected fluids. If the information is proprietary, maximum concentrations only may be submitted, but all records must be retained.
- I. FORMATION TESTING PROGRAM** - Describe the proposed formation testing program. For Class I wells the program must be designed to obtain data on fluid pressure, temperature, fracture pressure, other physical, chemical, and radiological characteristics of the injection matrix and physical and chemical characteristics of the formation fluids.
- For Class II wells the testing program must be designed to obtain data on fluid pressure, estimated fracture pressure, physical and chemical characteristics of the injection zone. (Does not apply to existing Class II wells or projects.)
- For Class III wells the testing must be designed to obtain data on fluid pressure, fracture pressure, and physical and chemical characteristics of the formation fluids if the formation is naturally water bearing. Only fracture pressure is required if the program formation is not water bearing. (Does not apply to existing Class III wells or projects.)
- J. STIMULATION PROGRAM** - Outline any proposed stimulation program.
- K. INJECTION PROCEDURES** - Describe the proposed injection procedures including pump, surge, tank, etc.
- L. CONSTRUCTION PROCEDURES** - Discuss the construction procedures (according to §146.12 for Class I, §146.22 for Class II, and §146.32 for Class III) to be utilized. This should include details of the casing and cementing program, logging procedures, deviation checks, and the drilling, testing and coring program, and proposed annulus fluid. (Request and submission of justifying data must be made to use an alternative to packer for Class I.)
- M. CONSTRUCTION DETAILS** - Submit schematic or other appropriate drawings of the surface and subsurface construction details of the well.
- N. CHANGES IN INJECTED FLUID** - Discuss expected changes in pressure, native fluid displacement, and direction of movement of injection fluid. (Class III wells only.)
- O. PLANS FOR WELL FAILURES** - Outline contingency plans (proposed plans, if any, for Class II) to cope with all shut-ins or wells failures, so as to prevent migration of fluids into any USDW.
- P. MONITORING PROGRAM** - Discuss the planned monitoring program. This should be thorough, including maps showing the number and location of monitoring wells as appropriate and discussion of monitoring devices, sampling frequency, and parameters measured. If a manifold monitoring program is utilized, pursuant to §146.23(b)(5), describe the program and compare it to individual well monitoring.
- Q. PLUGGING AND ABANDONMENT PLAN** - Submit a plan for plugging and abandonment of the well including: (1) describe the type, number, and placement (including the elevation of the top and bottom) of plugs to be used; (2) describe the type, grade, and quantity of cement to be used; and (3) describe the method to be used to place plugs, including the method used to place the well in a state of static equilibrium prior to placement of the plugs. Also for a Class III well that underlies or is in an exempted aquifer, demonstrate adequate protection of USDWs. Submit this information on EPA Form 7520-14, Plugging and Abandonment Plan.

- R. NECESSARY RESOURCES** - Submit evidence such as a surety bond or financial statement to verify that the resources necessary to close, plug or abandon the well are available.
- S. AQUIFER EXEMPTIONS** - If an aquifer exemption is requested, submit data necessary to demonstrate that the aquifer meets the following criteria: (1) does not serve as a source of drinking water; (2) cannot now and will not in the future serve as a source of drinking water; and (3) the TDS content of the ground water is more than 3,000 and less than 10,000 mg/l and is not reasonably expected to supply a public water system. Data to demonstrate that the aquifer is expected to be mineral or hydrocarbon production, such as general description of the mining zone, analysis of the amenability of the mining zone to the proposed method, and time table for proposed development must also be included. For additional information on aquifer exemptions, see 40 CFR Sections 144.7 and 146.04.
- T. EXISTING EPA PERMITS** - List program and permit number of any existing EPA permits, for example, NPDES, PSD, RCRA, etc.
- U. DESCRIPTION OF BUSINESS** - Give a brief description of the nature of the business.

RWS 12SWD 5 9 24
2033 FSL, 859 FWL
Section 5, T9S, R24E, SLBM
Uintah County, Utah
Attachments to EPA Form 7520-6 (UIC Form 4)

Questar Exploration and Production is applying to drill/construct the RWS 12SWD-5-9-24 as a salt water disposal well. All information regarding the RWS 12SWD-5-9-24 such as engineering reports, maps, well tests and logs will be submitted to the State of Utah Division of Oil, Gas and Mining, the Bureau of Land Management and the Environmental Protection Agency.

A. Area of Review (AOR) Methods

The AOR will be ¼ mile radius surrounding the subject well.

B. Maps of AOR (See Attachment B)

Attached is a topographic map indicating the proposed disposal well and other wells in AOR.

C. Corrective Action Plan and AOR Well Data (See Attachment C)

Attached is a tabulation of all wells within the AOR. Completion and/or plugging data for each well in the AOR is attached. There are no wells in the AOR operating over the fracture pressure of the injection formation.

D. Maps and Cross Section of USDWs

Not applicable

E. Name and Depth of USDWs (Class II)

Using well control and subsurface water samples available in 1987, the base of the moderately saline water (TDS 10,000 mg/l) for the area, including this AOR, was estimated in USGS Open File Report 87-394/Utah Department of Natural Resources Technical Publication No 92: Base of the Moderately Saline Ground Water in the Uintah Basin (1987: Howell, L., Longson, M.S., and Hunt, G.L). From this publication with its corresponding plates, the base of moderately saline water was estimated to be approximately 3000 feet above sea level at the location of this AOR. With a surface elevation of 5127 feet, the base of the moderately saline water from that report is approximately 2127 feet below surface level. However, gas wells drilled in and adjacent to this AOR since the time of publication of that report have encountered "trona water" at shallower depths, indicating the base of moderately saline water is higher than 2127'. This proposed well will sample and analyze any waters encountered down to and including the proposed injection zone to document subsurface water quality and insure that any USDWs are identified and adequately protected.

F. Maps and Cross sections of Geologic structure of the area

Not Applicable

G. Geologic Data on Injection and Confining Zones

The target injection interval, the Birds Nest zone, is between 1800' to 1900'. It consists of sandstone interbedded with shales, siltstone, and tight carbonates with large cavities of dissolved trona or nacholite.

Injection perforations are to be determined.

Geologic data is from the QEP gas well, RWS 12ML-5-9-24.

The confining zone directly above the injection zone extends from 1560 to 1800' in the Green River formation. It consists of shale with interbedded tight mudstones and carbonates. An additional 160 feet of confining strata lies above the top of the Green River formation at 1560' extending upward to 1400' into the overlying Uinta formation. USDW's in the Uinta formation are protected by cement and confining zones above the injection zone.

The primary injection target is the Birds Nest zone which does not meet USDW standards, having been analyzed locally (but outside the AOR) to contain 41,000 mg/l Na⁺ with TDS of 105,000 mg/l ([http: pubs.usgs.gov/of/1996/ofr-96-0729.pdf](http://pubs.usgs.gov/of/1996/ofr-96-0729.pdf)).

Formation Tops:

Uinta: surface

Green River: 1,560'

Birds Nest zone: 1,800' – 1,900'

H. Operating Data

1) Anticipated maximum daily injection volume.

At this time QEP is requesting to waive the maximum daily volume requirement.

2) Average and Maximum Injection Pressure

The estimated injection pressure gradient is based upon existing UIC permitted surface injection pressures within the Glenn Bench Unit (0.709). Please refer to EPA document reference number 8P-W-GW Unit Wide Fracture Determination in the Glen Bench Enhanced Recovery Unit, Uintah Basin, Utah (see attachment H-2).

The specific gravity for the injection fluid is based on the water analysis performed on two other disposal wells that inject similar fluid.

RW 43-28A (EPA No. UT2918-02445) = 1.02 Specific gravity

RW 41-33B (EPA No. UT2661-02444) = 1.02 Specific gravity

Average = 1.02 Specific gravity

Theoretical maximum allowable surface injection pressure (P_m) is 507 psig.

P_m = maximum pressure at the wellhead

1.02 = specific gravity of the injection fluid

0.709 = face fracture gradient

1800' = depth to top of the perforations

0.433 = normal pressure gradient

$$P_m = [0.709 - 0.433 (1.02)] 1800 = 507 \text{ psi}$$

3) Nature of the annulus fluid

The nature of the annulus fluid is described as packer fluid: a mixture of fresh water with scale and corrosion inhibitors.

4) Source and Analysis of the Injection Fluid

The injection source will be produced water from producing oil and gas wells. A water analysis for the produced water injecting into two other disposal wells is attached (See attachment H-4). This report must always be submitted in its entirety. Please refer to page 11 and 4 of the report. The injection fluid will be the same for this proposed disposal well.

I. Formation Testing Program-

Not Applicable

J. Stimulation Program-

Not Applicable

K. Injection Procedures-

Not Applicable

L. Construction Procedures-

The eight point drilling program is attached (See attached M-1).

M. Construction Details-

Eight point drilling program is attached (See attached M-1).

The well will have an open hole completion from 1760' to 1900'.

The target injection zone is the interval between 1,800'-1900'. It consists of sandstone interbedded with shales, siltstone, and tight carbonates with large cavities of dissolved trona or nacholite.

Survey plat of the location is attached (see attachment M-2).

N. Changes in Injected Fluid

Not Applicable

O. Plans for Well Failures

Not Applicable

P. Monitoring Program

Not Applicable

Q. Plugging and Abandonment Plan

QEP will notify the Director 45 days before conversion or moving on to abandon the well. The Plugging and Abandonment Plan shall be as follows:

1. MIRU plugging unit and 2000' 2 7/8" work string.
2. RIH with tubing to 2000', Fill hole with minimum 9 ppg fluid.
3. Set balanced cement plug from 1460' to 1860'.
4. Displace cement to EOT, pull up 6 stands and reverse circulate to clear tubing.
5. WOC and then tag plug.
6. POOH to 200' and lay down tubing.
7. Set cement plug from 200' to surface.
8. POOH and lay down tubing.
9. RDMO cut off wellhead install dryhole marker.

R. Necessary Resources

QEP would operate this well under EPA UIC Bond Number 965003769. (See attachment R)

S. Aquifer Exemptions

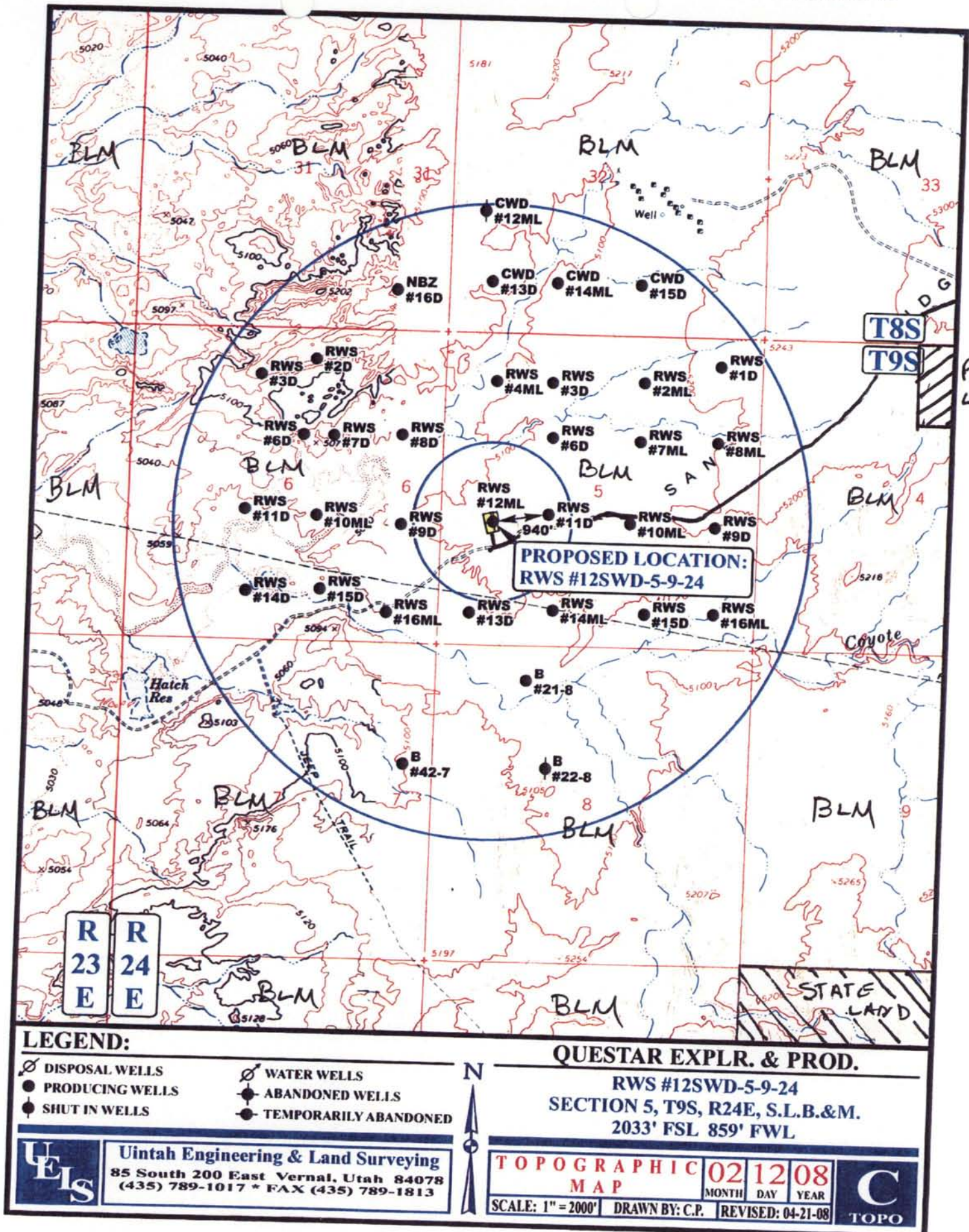
Through an agreement between the State Of Utah and EPA, the Green River Formation has been previously exempted.

T. Existing EPA Permits

Not Applicable

U. Description of Business

QEP engages in exploration, drilling and production of crude oil and natural gas in the Rocky Mountain West and the Mid-Continent Regions.



Attachment C

Attachment C: Corrective Action Plan and AOR Well Data AOR Wells within ¼ mile Radius of RWS 12SWD-5-9-24

<u>Well Name & No.</u>	<u>Status</u>	<u>Location</u>	<u>API #</u>	<u>Completion</u>		<u>Top Perf</u>	<u>Btm Perf</u>	<u>PBTD</u>
				<u>Date</u>				
RWS 12ML-5-9-24	PGW	(2056' FSL 851' FWL) NWSW S 5, T9S,R24E.	4304737309	8/25/06		4444-4452'	7552-7554'	8063'



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

ATTACHMENT H-2

REGION 8
999 18TH STREET - SUITE 300
DENVER, CO 80202-2466
<http://www.epa.gov/region08>

APR 23 2002

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Scott M. Webb
Regulatory Coordinator
Shenandoah Energy Inc.
475 Seventeenth Street
Denver, CO 80202

RE: UNDERGROUND INJECTION CONTROL (UIC)
Shenandoah Energy Inc. Request for
REFER TO THE ~~Unit-Wide Fracture Determination in~~
~~the Glen Bench Enhanced Recovery~~
~~Unit, Uinta Basin, Utah~~

Dear Mr. Webb:

Thank you for providing additional information that supports your request of March 14, 2002, that the Environmental Protection Agency (EPA) consider using a standard Unit-wide fracture gradient (FG) for determining the maximum allowable surface injection pressure (MAIP) for EPA regulated injection wells in the Glen Bench Enhanced Recovery Unit, Uinta Basin, Utah.

Shenandoah Energy Inc. (Shenandoah) originally made this request in a letter dated August 19, 2001. The EPA denied that request stating that Step-Rate Test (SRT) data supplied at that time, from all five existing injection wells in the Glen Bench Unit, demonstrated too wide of a spread in values to consider standardizing the fracture gradient across the Unit. Shenandoah noted that several of the SRT data sets were several years old; had been acquired soon after injection commenced into a depleted zone; and probably were not representative of the actual present reservoir conditions. Subsequently, Shenandoah ran new SRTs on two (2) wells to provide updated injection zone data to determine current reservoir conditions after several years of injection.

EPA has reviewed the new data, and based upon that review the EPA has determined that a Unit-wide fracture gradient could reasonably be used by the Director to determine the MAIP for EPA regulated injection wells in the Glen Bench Enhanced Recovery Unit. ~~According to EPA analysis, a fracture gradient of 0.709~~
~~psi/ft may be considered a reasonable average Unit-wide fracture~~
~~gradient that could be used by the Director to determine a MAIP~~
that will assure that the pressure during injection does not initiate new fractures or propagate existing fractures in the



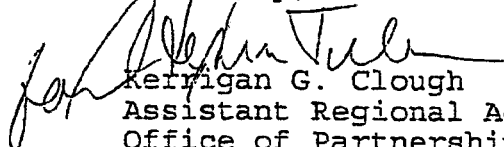
Printed on Recycled Paper

confining zone adjacent to underground sources of drinking water, pursuant to 40 CFR § 146.23(a)(1).

Accordingly, a new MAIP has been determined for the five (5) regulated injection wells in the Glen Bench Enhanced Recovery Unit. Each new MAIP has been calculated using a fracture gradient of 0.709 psi/ft, a Specific gravity of 1.012, and the depth to the top perforation for each individual injection well. A Minor Permit Modification has been made to each injection well Permit in order to incorporate the changes discussed herein, and a copy of each Minor Permit Modification is enclosed with this letter.

If you have any questions regarding this decision, you may contact Dan Jackson, of my staff, at 800.227.8917, Ext. 6155.

Sincerely,



Kerrigan G. Clough
Assistant Regional Administrator
Office of Partnerships and
Regulatory Assistance

encl: Minor Permit Modifications:

Glen Bench Fed. No. 22-20 Permit No. UT20755-04235
Glen Bench State No. 12-16 Permit No. UT20765-04248
Glen Bench State No. 7-16 Permit No. UT20803-04335
Glen Bench Unit No. 15-19-8-22 Permit No. 20806-04338
Glen Bench State No. 6-16 Permit No. UT20878-04539

Addendum to a Statement of Basis

cc w/encl: Mr. D. Floyd Wopsock, Chairman
Uintah & Ouray Business Council
Ute Indian Tribe

Ms. Elaine Willie, Environmental Director
Ute Indian Tribe

Superintendent
BIA - Uinta & Ouray Indian Agency

Mr. Gil Hunt
Utah Division of Oil, Gas, and Mining

Mr. Jerry Kenczka
BLM - Vernal, - Utah

Mr. Nathan Wiser
8ENF-T

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

**Analytical
Report**

November 05, 2007

Report to:

Ann Petrik

Questar Exploration & Production Company

11002 East 17500 South

Vernal, UT 84078

Bill to:

Ann Petrik

Questar Exploration & Production Company

11002 East 17500 South

Vernal, UT 84078

cc: Dennis Paulson

Project ID: ANN-2007

ACZ Project ID: L65815

Ann Petrik:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 22, 2007. This project has been assigned to ACZ's project number, L65815. Please reference this number in all future inquiries.

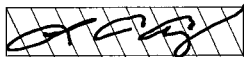
All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L65815. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after December 05, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

If you have any questions or other needs, please contact your Project Manager.



05/Nov/07

Tony Antalek, Project Manager, has reviewed and approved this report in its entirety.



Questar Exploration Production Company

November 05, 2007

Project ID: ANN-2007

ACZ Project ID: L65815

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 10 ground water samples from Questar Exploration & Production Company on October 22, 2007. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L65815. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses except those qualified with an ACZ 'H' flag were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. Client samples were received at a temperature outside of the acceptable range (See Sample Receipt Form).

Questar Exploration & Production Company

Project ID: ANN-2007

Sample ID: WONSITS VALLEY

ACZ Sample ID: **L65815-01**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	46900			umhos/cm	1	10	10/25/07 18:35	aeH
Lab Filtration	SM 3030 B			*				10/22/07 14:50	ear
pH (lab)	150.1 / SM4500H+ B								
pH		8.2	H		units	0.1	0.1	10/25/07 0:00	aeH
pH measured at		22.0			C	0.1	0.1	10/25/07 0:00	aeH
Residue, Filterable (TDS) @180C	160.1 / SM2540C	31400	H	*	mg/L	50	100	10/29/07 10:21	ear
Specific Gravity	SM 2710F	1.020		*		0.001	0.001	10/30/07 14:00	jlf

Questar Exploration & Production Company

Project ID: ANN-2007

Sample ID: GYPSUM HILLS

ACZ Sample ID: **L65815-02**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	622			umhos/cm	1	10	10/25/07 18:39	aeh
Lab Filtration	SM 3030 B			*				10/22/07 14:57	ear
pH (lab)	150.1 / SM4500H+ B								
pH		8.1	H		units	0.1	0.1	10/25/07 0:00	aeh
pH measured at		22.0			C	0.1	0.1	10/25/07 0:00	aeh
Residue, Filterable (TDS) @180C	160.1 / SM2540C	430			mg/L	10	20	10/22/07 15:50	ear
Specific Gravity	SM 2710F	0.997		*		0.001	0.001	10/30/07 14:02	jlf

Questar Exploration & Production Company

Project ID: ANN-2007

Sample ID: HORSE POOL

ACZ Sample ID: **L65815-03**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	619			umhos/cm	1	10	10/25/07 18:43	aeh
Lab Filtration	SM 3030 B			*				10/22/07 15:04	ear
pH (lab)	150.1 / SM4500H+ B								
pH		8.0	H		units	0.1	0.1	10/25/07 0:00	aeh
pH measured at		22.0			C	0.1	0.1	10/25/07 0:00	aeh
Residue, Filterable (TDS) @180C	160.1 / SM2540C	400			mg/L	10	20	10/22/07 15:52	ear
Specific Gravity	SM 2710F	0.998		*		0.001	0.001	10/30/07 14:05	jlf

Questar Exploration & Production Company

Project ID: ANN-2007

Sample ID: GLEN BENCH INJECTION

ACZ Sample ID: **L65815-04**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	13000			umhos/cm	1	10	10/25/07 18:46	aeh
Lab Filtration	SM 3030 B			*				10/22/07 15:12	ear
pH (lab)	150.1 / SM4500H+ B								
pH		8.4	H		units	0.1	0.1	10/25/07 0:00	aeh
pH measured at		23.0			C	0.1	0.1	10/25/07 0:00	aeh
Residue, Filterable (TDS) @180C	160.1 / SM2540C	7800		*	mg/L	10	20	10/22/07 15:54	ear
Specific Gravity	SM 2710F	1.000		*		0.001	0.001	10/30/07 14:08	jlf

Questar Exploration & Production Company

Project ID: ANN-2007

Sample ID: BRENNON INJECTION

ACZ Sample ID: **L65815-05**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	35000			umhos/cm	1	10	10/25/07 18:50	aeH
Lab Filtration	SM 3030 B			*				10/22/07 15:19	ear
pH (lab)	150.1 / SM4500H+ B								
pH		8.0	H		units	0.1	0.1	10/25/07 0:00	aeH
pH measured at		22.0			C	0.1	0.1	10/25/07 0:00	aeH
Residue, Filterable (TDS) @180C	160.1 / SM2540C	22700	H	*	mg/L	50	100	10/29/07 10:23	ear
Specific Gravity	SM 2710F	1.020		*		0.001	0.001	10/30/07 14:10	jlf

Questar Exploration & Production Company

Project ID: ANN-2007

Sample ID: CENTRAL BATTERY INJE

ACZ Sample ID: **L65815-06**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	16300			umhos/cm	1	10	10/25/07 18:53	aeH
Lab Filtration	SM 3030 B			*				10/22/07 15:27	ear
pH (lab)	150.1 / SM4500H+ B								
pH		8.4	H		units	0.1	0.1	10/25/07 0:00	aeH
pH measured at		22.0			C	0.1	0.1	10/25/07 0:00	aeH
Residue, Filterable (TDS) @180C	160.1 / SM2540C	10700		*	mg/L	10	20	10/22/07 15:59	ear
Specific Gravity	SM 2710F	1.010		*		0.001	0.001	10/30/07 14:13	jlf

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

**Inorganic Analytical
Results****Questar Exploration & Production Company**

Project ID: ANN-2007

Sample ID: 43-28A

ACZ Sample ID: **L65815-07**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	35500			umhos/cm	1	10	10/25/07 18:54	aeh
Lab Filtration	SM 3030 B			*				10/22/07 15:34	ear
pH (lab)	150.1 / SM4500H+ B								
pH		6.9	H		units	0.1	0.1	10/30/07 0:00	aeh
pH measured at		22.0			C	0.1	0.1	10/30/07 0:00	aeh
Residue, Filterable (TDS) @180C	160.1 / SM2540C	24500	H	*	mg/L	50	100	10/29/07 10:25	ear
Specific Gravity	SM 2710F	1.020		*		0.001	0.001	10/30/07 14:16	jif

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

**Inorganic Analytical
Results****Questar Exploration & Production Company**

Project ID: ANN-2007

Sample ID: 41-33B

ACZ Sample ID: **L65815-08**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	45400			umhos/cm	1	10	10/25/07 18:59	aeH
Lab Filtration	SM 3030 B			*				10/22/07 15:42	ear
pH (lab)	150.1 / SM4500H+ B								
pH		7.5	H		units	0.1	0.1	10/25/07 0:00	aeH
pH measured at		22.0			C	0.1	0.1	10/25/07 0:00	aeH
Residue, Filterable (TDS) @180C	160.1 / SM2540C	30300	H	*	mg/L	50	100	10/29/07 10:27	ear
Specific Gravity	SM 2710F	1.020		*		0.001	0.001	10/30/07 14:19	jlf

Questar Exploration & Production Company

Project ID: ANN-2007

Sample ID: 18B INJECTION

ACZ Sample ID: **L65815-09**

Date Sampled: 10/17/07 15:00

Date Received: 10/22/07

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	639			umhos/cm	1	10	10/25/07 19:03	aeH
Lab Filtration	SM 3030 B			*				10/22/07 15:49	ear
pH (lab)	150.1 / SM4500H+ B								
pH		8.1	H		units	0.1	0.1	10/25/07 0:00	aeH
pH measured at		22.0			C	0.1	0.1	10/25/07 0:00	aeH
Residue, Filterable (TDS) @180C	160.1 / SM2540C	420			mg/L	10	20	10/22/07 16:05	ear
Specific Gravity	SM 2710F	1.000		*		0.001	0.001	10/30/07 14:21	jlf

Questar Exploration & Production CompanyProject ID: ANN-2007
Sample ID: 21A INJECTIONACZ Sample ID: **L65815-10**
Date Sampled: 10/17/07 15:00
Date Received: 10/22/07
Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Conductivity @25C	120.1 / SM2510B	29200			umhos/cm	1	10	10/25/07 19:25	aeH
Lab Filtration	SM 3030 B			*				10/22/07 15:57	ear
pH (lab)	150.1 / SM4500H+ B								
pH		8.3	H		units	0.1	0.1	10/25/07 0:00	aeH
pH measured at		21.0			C	0.1	0.1	10/25/07 0:00	aeH
Residue, Filterable (TDS) @180C	160.1 / SM2540C	19600		*	mg/L	10	20	10/22/07 16:07	ear
Specific Gravity	SM 2710F	1.020		*		0.001	0.001	10/30/07 14:24	jlf

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit, typically 5 times the MDL.
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
U	Analyte was analyzed for but not detected at the indicated MDL

Method References

- (1) EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

- (1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
- (2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
- (3) Animal matrices for Inorganic analyses are reported on an "as received" basis.

Questar Exploration & Production Company**ACZ Project ID: L65815**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L65815-01	WG235129	Residue, Filterable (TDS) @180C	160.1 / SM2540C	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			160.1 / SM2540C	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
			160.1 / SM2540C	ZO	TDS concentration is based on a final residue greater than 200 mg.
L65815-04	WG234740	Residue, Filterable (TDS) @180C	160.1 / SM2540C	ZO	TDS concentration is based on a final residue greater than 200 mg.
L65815-05	WG235129	Residue, Filterable (TDS) @180C	160.1 / SM2540C	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			160.1 / SM2540C	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
			160.1 / SM2540C	ZO	TDS concentration is based on a final residue greater than 200 mg.
L65815-06	WG234740	Residue, Filterable (TDS) @180C	160.1 / SM2540C	ZO	TDS concentration is based on a final residue greater than 200 mg.
L65815-07	WG235129	Residue, Filterable (TDS) @180C	160.1 / SM2540C	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			160.1 / SM2540C	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
			160.1 / SM2540C	ZO	TDS concentration is based on a final residue greater than 200 mg.
L65815-08	WG235129	Residue, Filterable (TDS) @180C	160.1 / SM2540C	H2	Initial analysis within holding time. Reanalysis for the required dilution was past holding time.
			160.1 / SM2540C	HE	Analysis performed past holding time. Method holding time is less than or equal to 7 days and sample was received with less than half of the holding time remaining (refer to item C5 of ACZ's Terms & Conditions).
			160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
			160.1 / SM2540C	ZO	TDS concentration is based on a final residue greater than 200 mg.
L65815-10	WG234740	Residue, Filterable (TDS) @180C	160.1 / SM2540C	ZO	TDS concentration is based on a final residue greater than 200 mg.

Questar Exploration & Production Company

ACZ Project ID: **L65815**

Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Lab Filtration	SM 3030 B
Specific Gravity	SM 2710F

Questar Exploration & Production Company
ANN-2007ACZ Project ID: L65815
Date Received: 10/22/2007
Received By:
Date Printed: 10/22/2007**Receipt Verification**

- 1) Does this project require special handling procedures such as CLP protocol?
- 2) Are the custody seals on the cooler intact?
- 3) Are the custody seals on the sample containers intact?
- 4) Is there a Chain of Custody or other directive shipping papers present?
- 5) Is the Chain of Custody complete?
- 6) Is the Chain of Custody in agreement with the samples received?
- 7) Is there enough sample for all requested analyses?
- 8) Are all samples within holding times for requested analyses?
- 9) Were all sample containers received intact?
- 10) Are the temperature blanks present?
- 11) Are the trip blanks (VOA and/or Cyanide) present?
- 12) Are samples requiring no headspace, headspace free?
- 13) Do the samples that require a Foreign Soils Permit have one?

YES	NO	NA
		X
		X
		X
X		
X		
X		
X		
X		
X		
		X
		X
		X
		X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
NA4724	17.1	15
NA4722	16.4	16
NA4723	15.9	16

Client must contact ACZ Project Manager
if analysis should not proceed for samples
received outside of thermal preservation
acceptance criteria.**Notes**

Questar Exploration & Production Company
ANN-2007ACZ Project ID: L65815
Date Received: 10/22/2007
Received By:**Sample Container Preservation**

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y < 2	YG < 2	B < 2	O < 2	T > 12	N/A	RAD	ID
L65815-01	WONSITS VALLEY									X		<input type="checkbox"/>
L65815-02	GYPSUM HILLS									X		<input type="checkbox"/>
L65815-03	HORSE POOL									X		<input type="checkbox"/>
L65815-04	GLEN BENCH INJECTION									X		<input type="checkbox"/>
L65815-05	BRENNON INJECTION									X		<input type="checkbox"/>
L65815-06	CENTRAL BATTERY INJE									X		<input type="checkbox"/>
L65815-07	43-28A									X		<input type="checkbox"/>
L65815-08	41-33B									X		<input type="checkbox"/>
L65815-09	18B INJECTION									X		<input type="checkbox"/>
L65815-10	21A INJECTION									X		<input type="checkbox"/>

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
B	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By: _____

ACZ Laboratories, Inc. L65815

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

CHAIN of
CUSTODY

Report to:

Name: Ann Petrik
Company: Questar Exploration and Production Co.
E-mail: Ann.Petrik@questar.com

Address: 11002 East 17500 South
Vernal, Utah 84078
Telephone: (435) 781-4092

Copy of Report to:

Name: Dennis Paulson
Company: Questar Exploration and Production Co.

E-mail: Dennis.Paulson@questar.com
Telephone: (435) 781-4354

Invoice to:

Name: same as above
Company:
E-mail:

Address:
Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES ☒
NO ☐

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO"

is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: Annual Injection
Project/PO #: ann - 2007
Shipping Co.: UPS
Tracking #:
Reporting state for compliance testing: Utah
Are any samples NRC licensable material? NO

SAMPLE IDENTIFICATION		DATE:TIME	Matrix	# of Containers	pH	TDS (mg/l)	Specific Conductivity	Specific Gravity						
Wonsits Valley	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
Gypsum Hills	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
Horse Pool	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
Glen Bench Injection	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
Brennon Injection	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
Central Battery Injection	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
43-28A	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
41-33B	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
18B Injection	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						
21A Injection	10/17/2007 15:00	GW	1	✓	✓	✓	✓	✓						

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME	Page
Dennis Paulson <i>Dennis J. Paulson</i>	10/18/2007 11:00 AM	<i>KU</i>	10-23-07 11:57	1 of 1

FRMQA021.12.03.06

White - Return with sample. Yellow - Retain for your records.

QUESTAR EXPLR. & PROD.

RWS #12SWD-5-9-24

LOCATED IN UINTAH COUNTY, UTAH

SECTION 5, T9S, R24E, S.L.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

02 12 08
MONTH DAY YEAR

PHOTO

TAKEN BY: D.R.

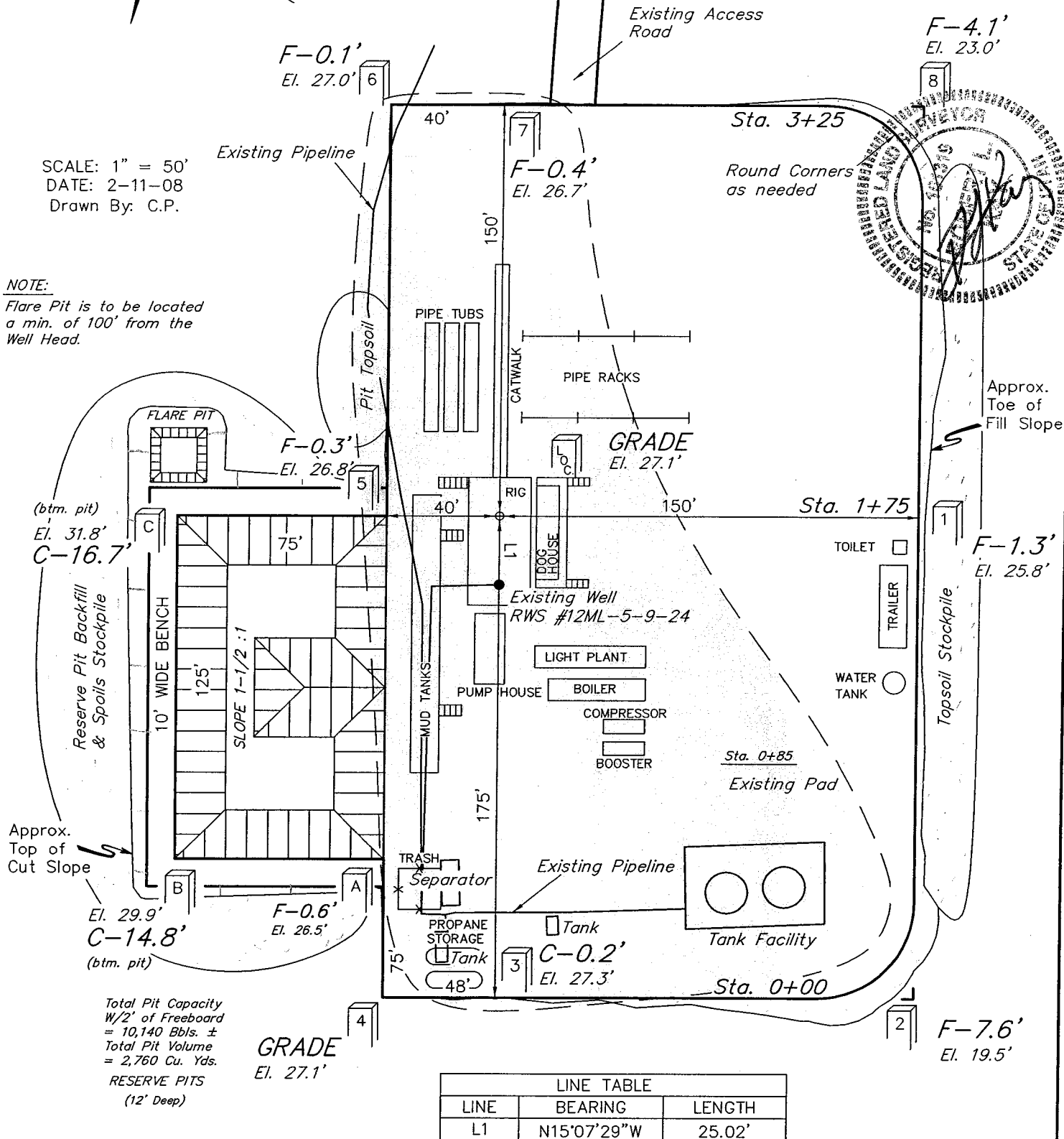
DRAWN BY: C.P.

REVISED: 00-00-00

LOCATION LAYOUT FOR
RWS #12SWD-5-9-24
SECTION 5, T9S, R24E, S.L.B.&M.
2033' FSL 859' FWL

SCALE: 1" = 50'
DATE: 2-11-08
Drawn By: C.P.

NOTE:
Flare Pit is to be located
a min. of 100' from the
Well Head.



FINISHED GRADE ELEV. AT LOC. STAKE = 5127.1'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

QUESTAR EXPLR. & PROD.

FIGURE #2

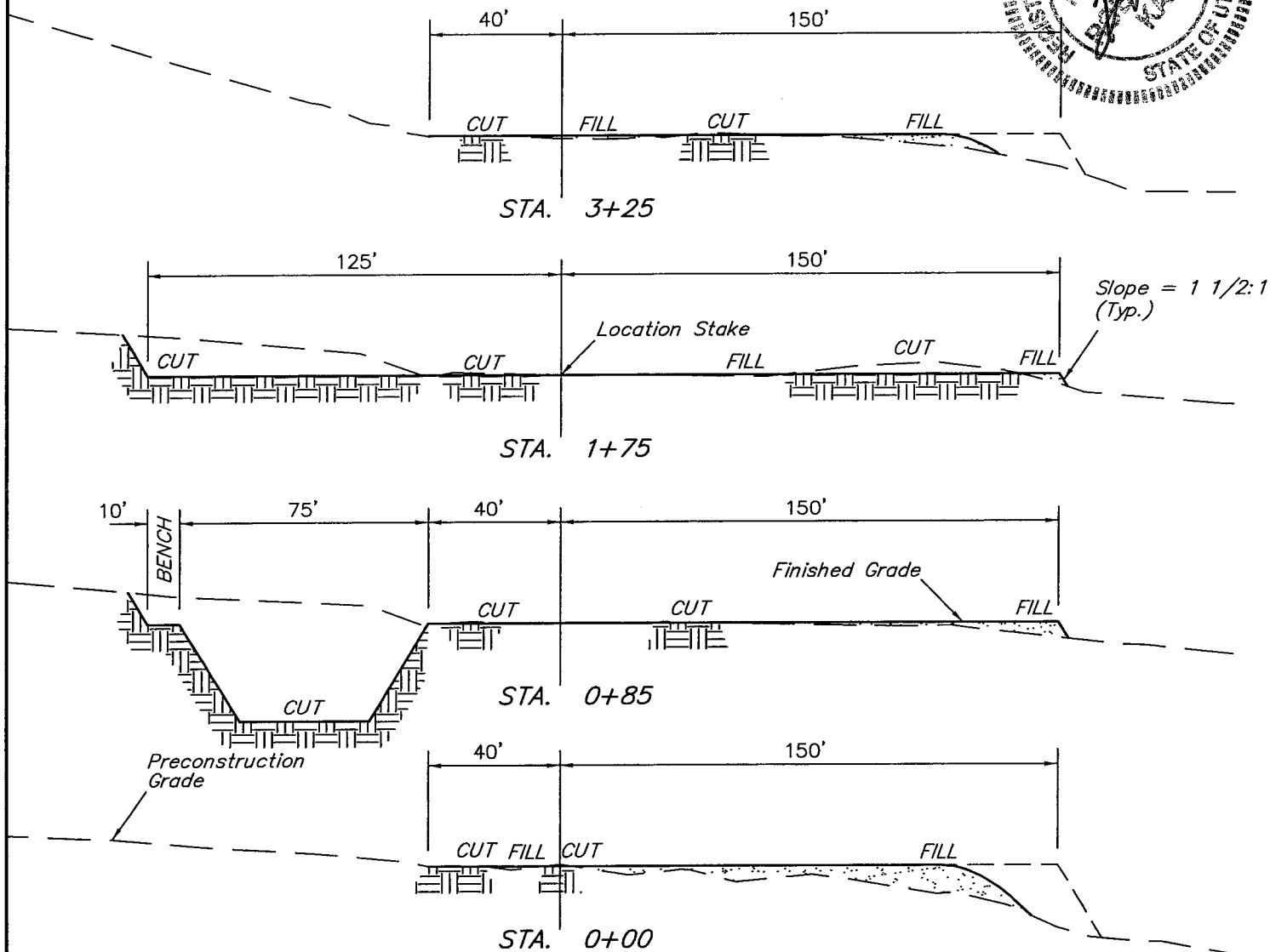
TYPICAL CROSS SECTIONS FOR

RWS #12SWD-5-9-24

SECTION 5, T9S, R24E, S.L.B.&M.

2033' FSL 859' FWL

1" = 20'
X-Section
Scale
1" = 50'
DATE: 2-11-08
Drawn By: C.P.



APPROXIMATE ACREAGES

OLD WELL SITE DISTURBANCE = ±2.518 ACRES

CONTAINED WELL SITE DISTURBANCE = ±2.128 ACRES

* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

NOTE:

Topsoil should not be
Stripped Below Finished
Grade on Substructure Area.

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,460 Cu. Yds.
Remaining Location = 4,350 Cu. Yds.
TOTAL CUT = 5,810 CU.YDS.
FILL = 950 CU.YDS.

EXCESS MATERIAL = 4,860 Cu. Yds.
Topsoil & Pit Backfill = 2,840 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 2,020 Cu. Yds.
(After Interim Rehabilitation)

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QUESTAR EXPLR. & PROD.

INTERIM RECLAMATION PLAN FOR

RWS #12SWD-5-9-24

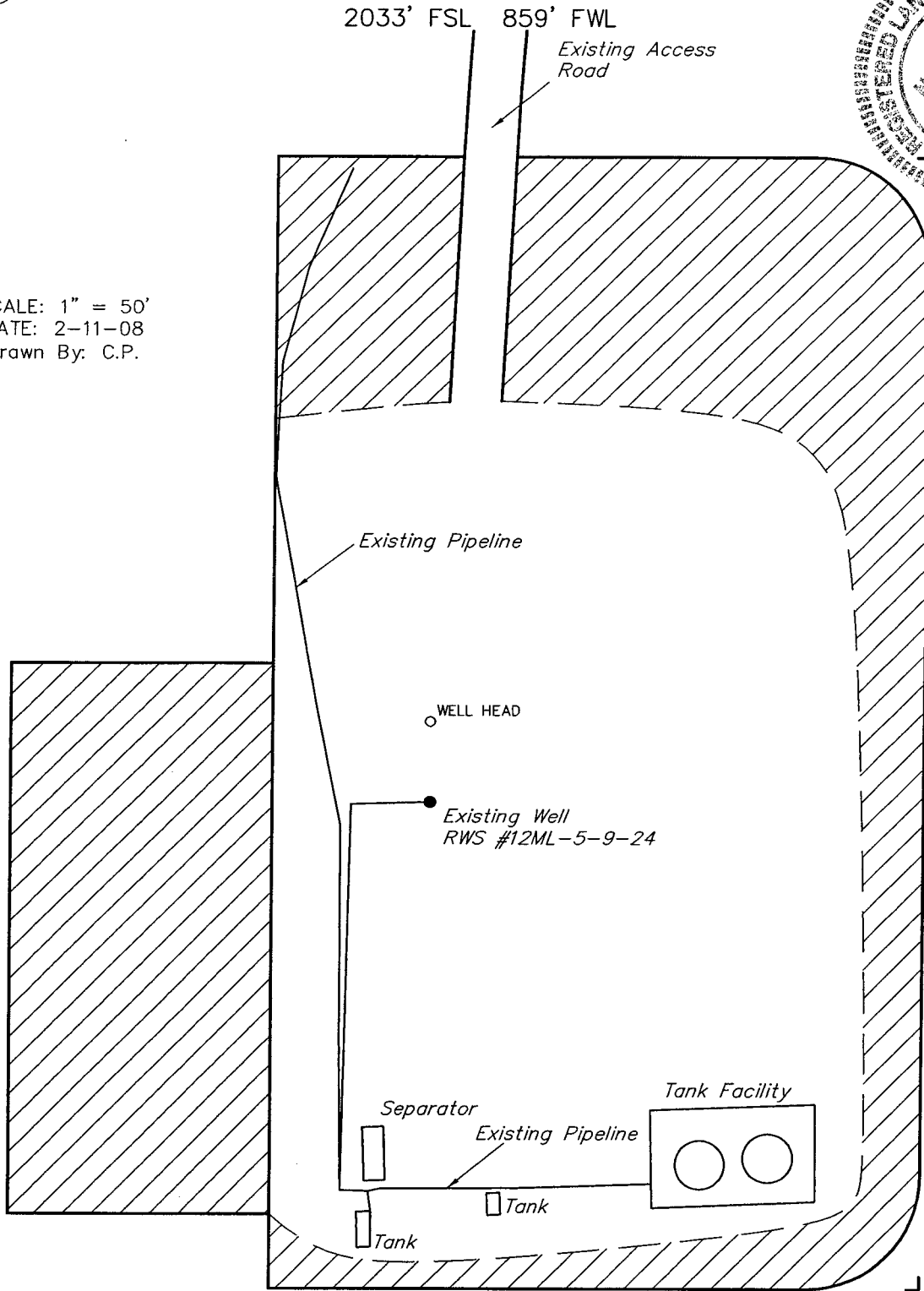
SECTION 5, T9S, R24E, S.L.B.&M.

2033' FSL 859' FWL

FIGURE #3



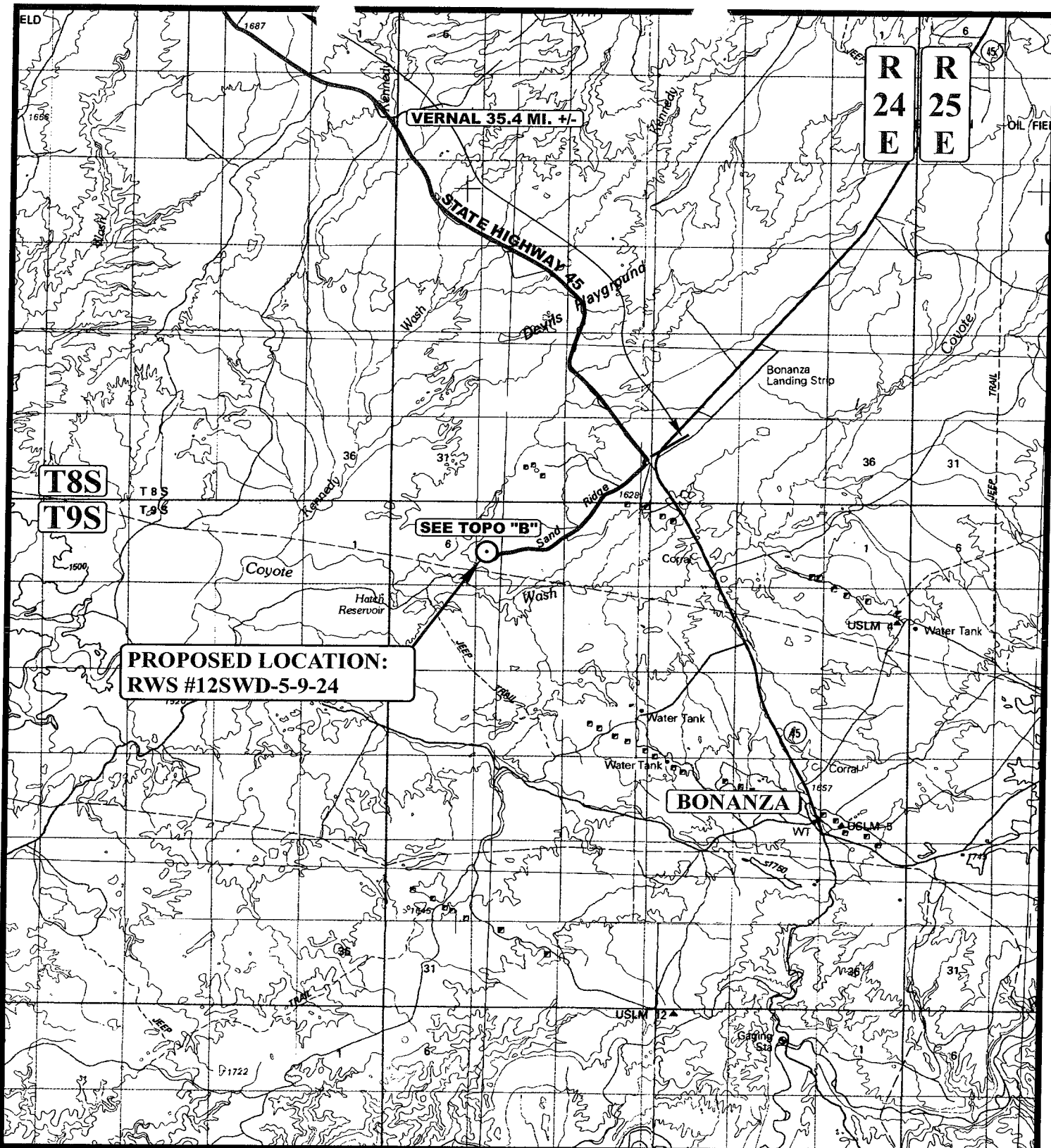
SCALE: 1" = 50'
DATE: 2-11-08
Drawn By: C.P.



INTERIM RECLAMATION

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017



LEGEND:

○ PROPOSED LOCATION

N

QUESTAR EXPLR. & PROD.

RWS #12SWD-5-9-24

SECTION 5, T9S, R24E, S.L.B.&M.

2033' FSL 859' FWL



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(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

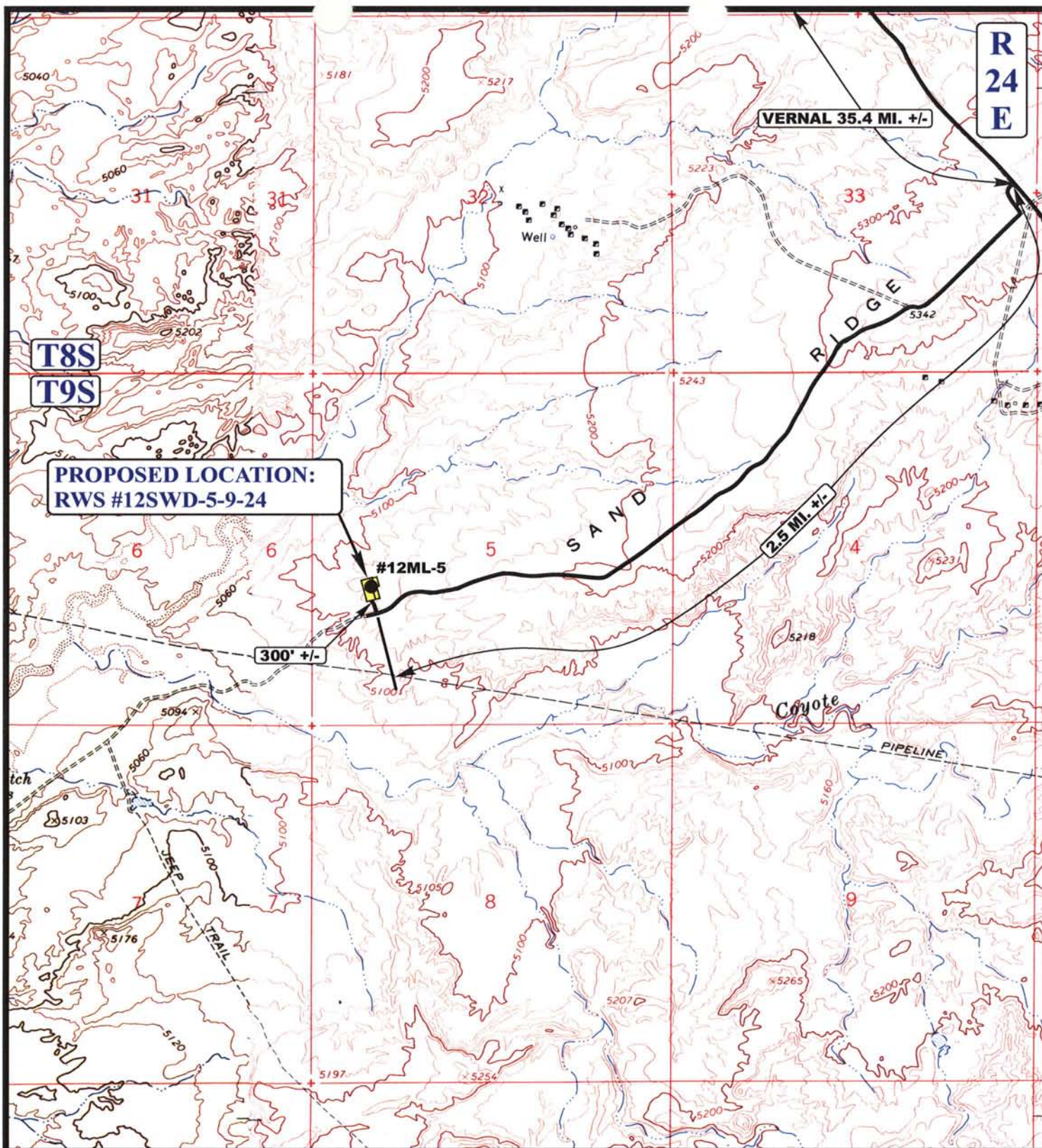
02 **12** **08**
MONTH DAY YEAR

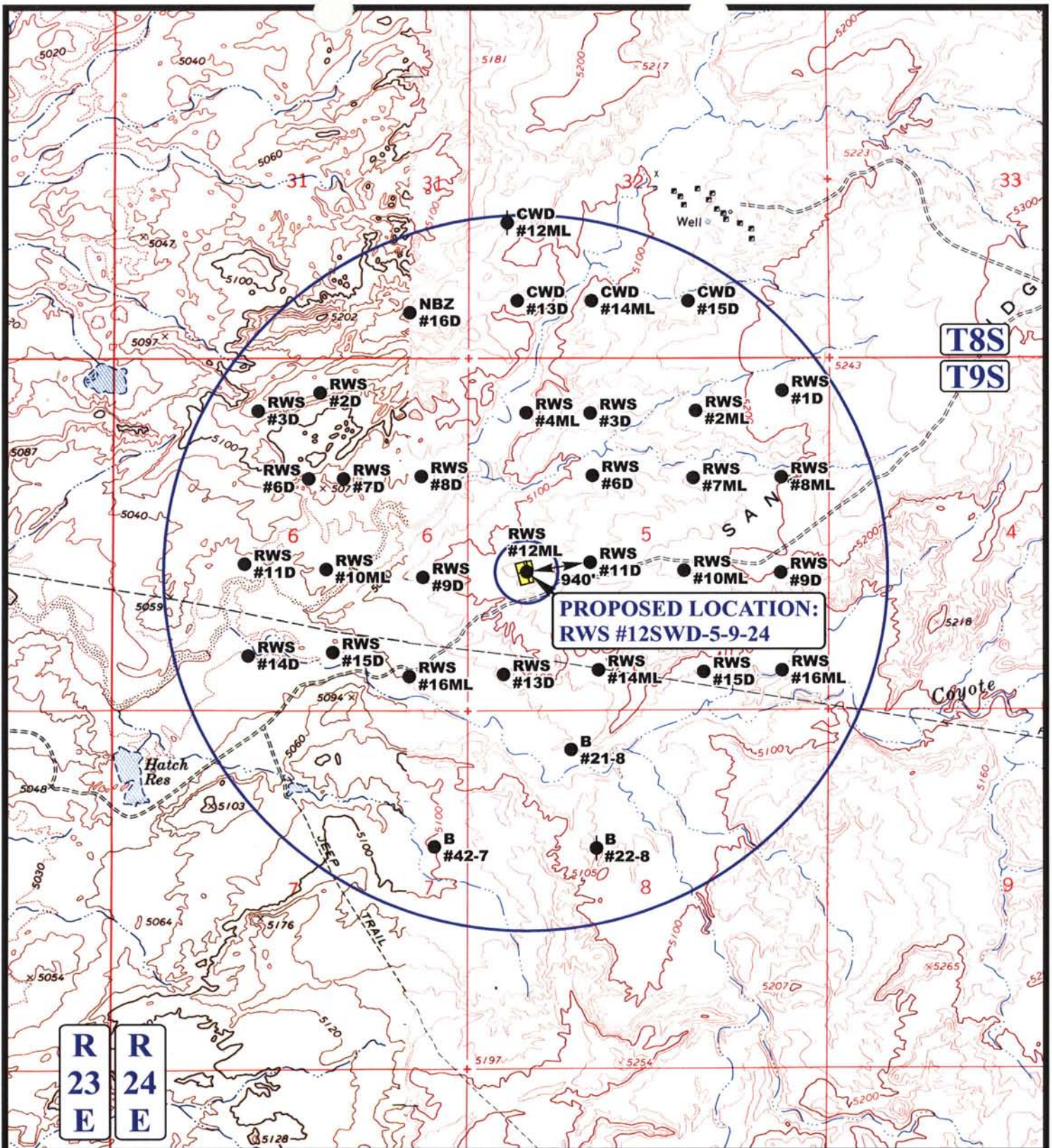
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DRAWN BY: C.P.

REVISED: 00-00-00







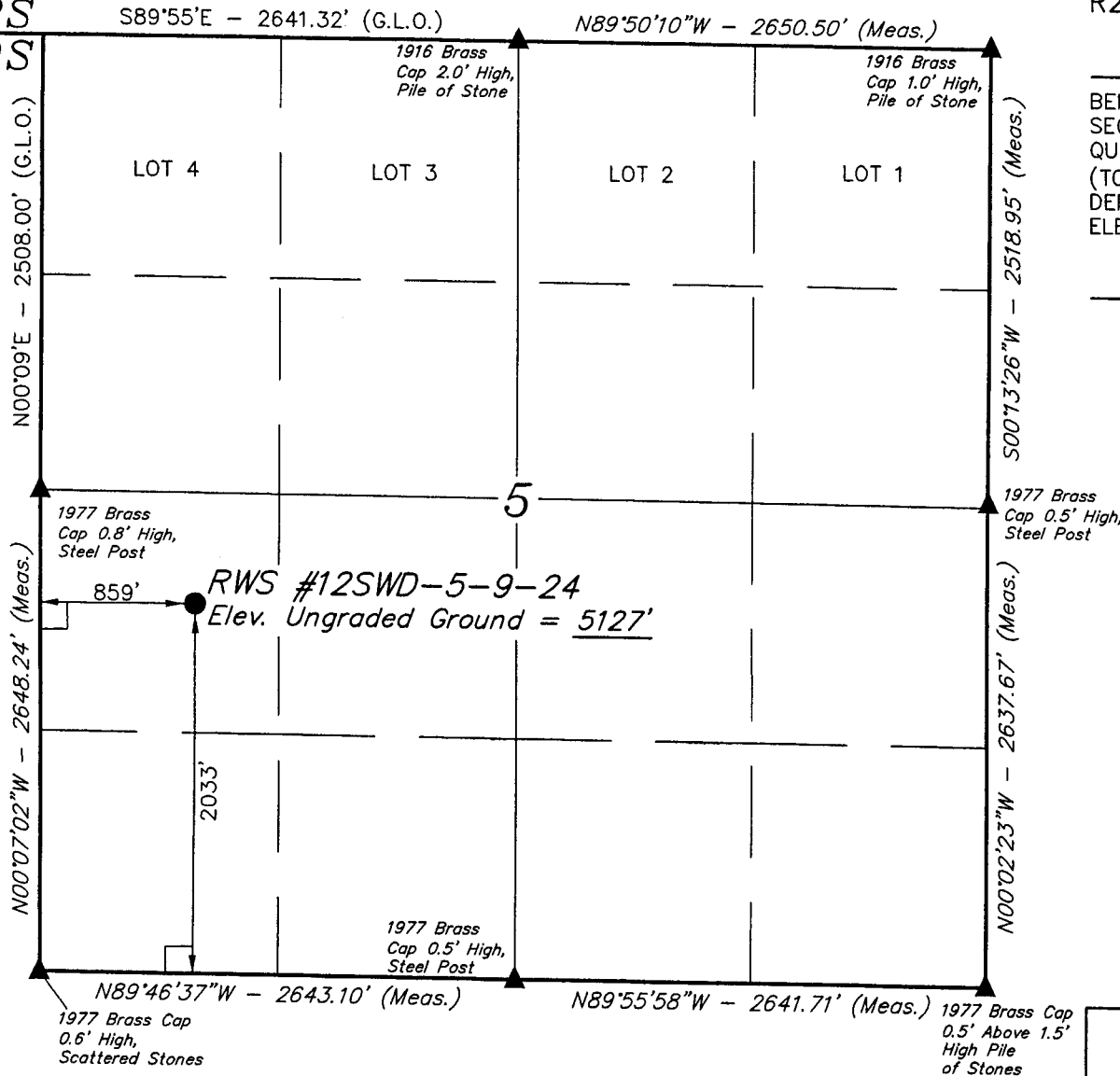
T9S, R24E, S.L.B.&M.

QUESTAR EXPLR. & PROD.

Well location, RWS #12SWD-5-9-24, located as shown in the NW 1/4 SW 1/4 of Section 5, T9S, R24E, S.L.B.&M. Uintah County, Utah.

T8S

T9S

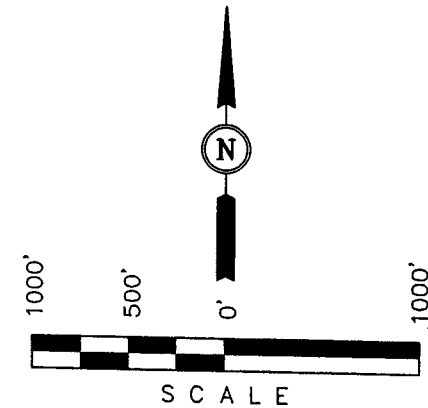


BASIS OF ELEVATION

BENCH MARK 45EAM LOCATED IN THE NW 1/4 SW 1/4 OF SECTION 6, T9S, R24E, S.L.B.&M. TAKEN FROM THE BONANZA, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5350 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE SURVEY WAS PREPARED BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(AUTONOMOUS NAD 83)
LATITUDE = 40°03'47.96" (40.063322)
LONGITUDE = 109°14'39.64" (109.244344)
(AUTONOMOUS NAD 27)
LATITUDE = 40°03'48.08" (40.063356)
LONGITUDE = 109°14'37.21" (109.243669)

SCALE 1" = 1000'	DATE SURVEYED: 2-7-08	DATE DRAWN: 2-11-08
PARTY D.R. A.W. C.P.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE QUESTAR EXPLR. & PROD.	

QUESTAR EXPLR. & PROD.

FIGURE #1

LOCATION LAYOUT FOR

RWS #12SWD-5-9-24
SECTION 5, T9S, R24E, S.L.B.&M.
2033' FSL 859' FWL

Existing Access Road

F-4.1'
El. 23.0'

F-0.1'
El. 27.0'

SCALE: 1" = 50'
DATE: 2-11-08
Drawn By: C.P.

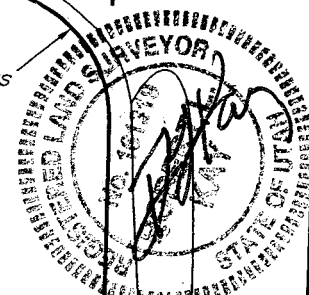
Existing Pipeline

Sta. 3+25

Round Corners
as needed

NOTE:

Flare Pit is to be located
a min. of 100' from the
Well Head.



Approx.
Toe of
Fill Slope

F-1.3'
El. 25.8'

Sta. 1+75

TOILET

TRAILER

WATER
TANK

Sta. 0+85

Existing Pad

LIGHT PLANT

BOILER

COMPRESSOR

BOOSTER

Existing Well
RWS #12ML-5-9-24

PUMP HOUSE

TRASH
Separator

PROpane
STORAGE

Tank

(48')

Existing Pipeline

Tank Facility

Sta. 0+00

F-7.6'
El. 19.5'

GRADE
El. 27.1'

Total Pit Capacity
W/2' of Freeboard
= 10,140 Bbls. ±
Total Pit Volume
= 2,760 Cu. Yds.
RESERVE PITS
(12' Deep)

LINE TABLE		
LINE	BEARING	LENGTH
L1	N15°07'29"W	25.02'

NOTES:

FINISHED GRADE ELEV. AT LOC. STAKE = 5127.1'

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QUESTAR EXPLR. & PROD.

FIGURE #2

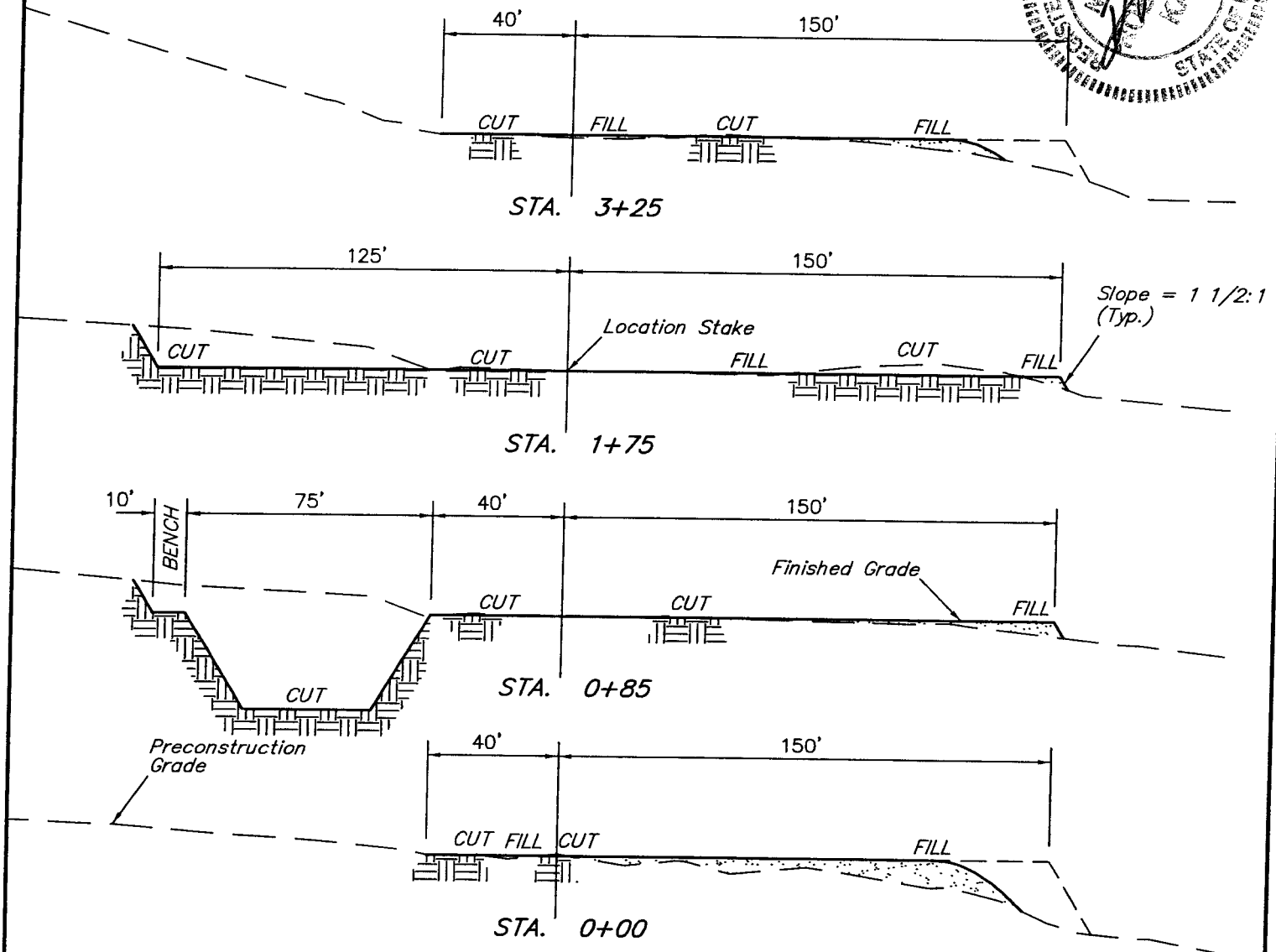
TYPICAL CROSS SECTIONS FOR

RWS #12SWD-5-9-24

SECTION 5, T9S, R24E, S.L.B.&M.

2033' FSL 859' FWL

1" = 20'
X-Section
Scale
1" = 50'
DATE: 2-11-08
Drawn By: C.P.



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CONTAINED WELL SITE DISTURBANCE = ± 2.128 ACRES

NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT

(6") Topsoil Stripping = 1,460 Cu. Yds.

Remaining Location = 4,350 Cu. Yds.

TOTAL CUT = 5,810 CU.YDS.

FILL = 950 CU.YDS.

EXCESS MATERIAL = 4,860 Cu. Yds.

Topsoil & Pit Backfill (1/2 Pit Vol.) = 2,840 Cu. Yds.

EXCESS UNBALANCE (After Interim Rehabilitation) = 2,020 Cu. Yds.

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QUESTAR EXPLR. & PROD.

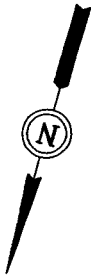
INTERIM RECLAMATION PLAN FOR

RWS #12SWD-5-9-24

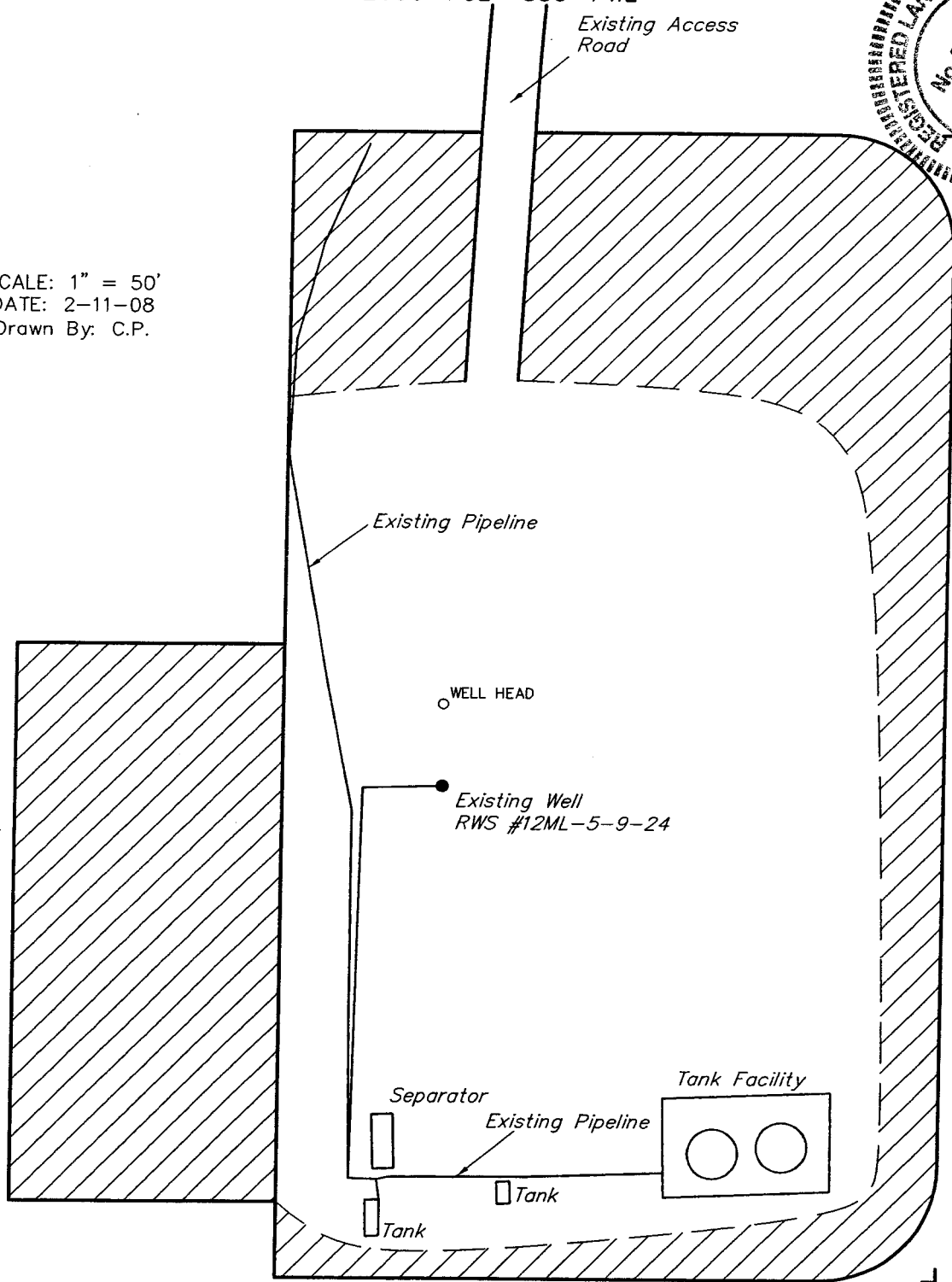
SECTION 5, T9S, R24E, S.L.B.&M.

2033' FSL 859' FWL

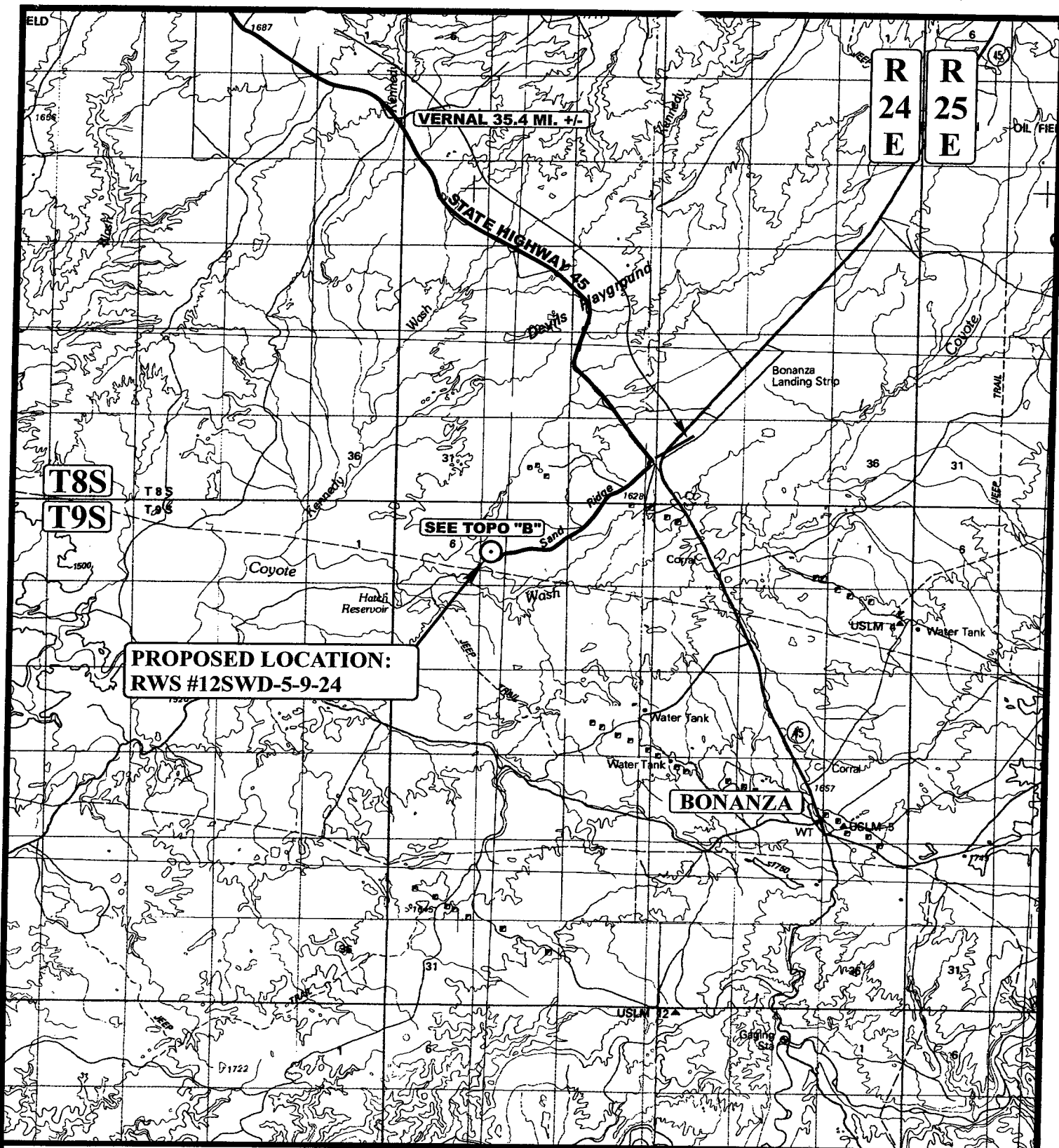
FIGURE #3



SCALE: 1" = 50'
DATE: 2-11-08
Drawn By: C.P.



 INTERIM RECLAMATION



LEGEND:

○ PROPOSED LOCATION

QUESTAR EXPLR. & PROD.

RWS #12SWD-5-9-24
SECTION 5, T9S, R24E, S.L.B.&M.
2033' FSL 859' FWL



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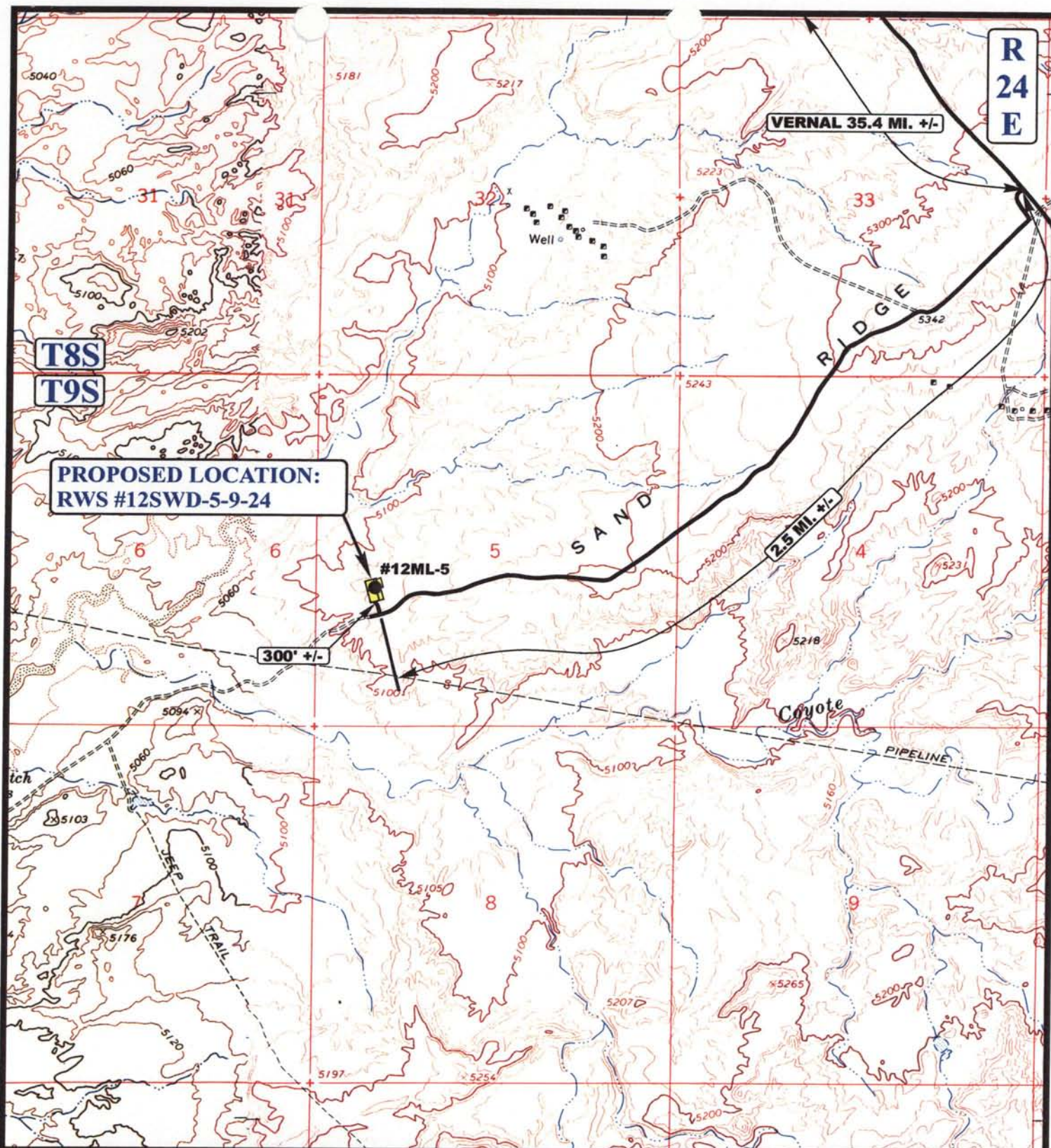


**TOPOGRAPHIC
MAP**

02 12 08
MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00





LEGEND:

— EXISTING ROAD



QUESTAR EXPLR. & PROD.

RWS #12SWD-5-9-24
SECTION 5, T9S, R24E, S.L.B.&M.
2033' FSL 859' FWL



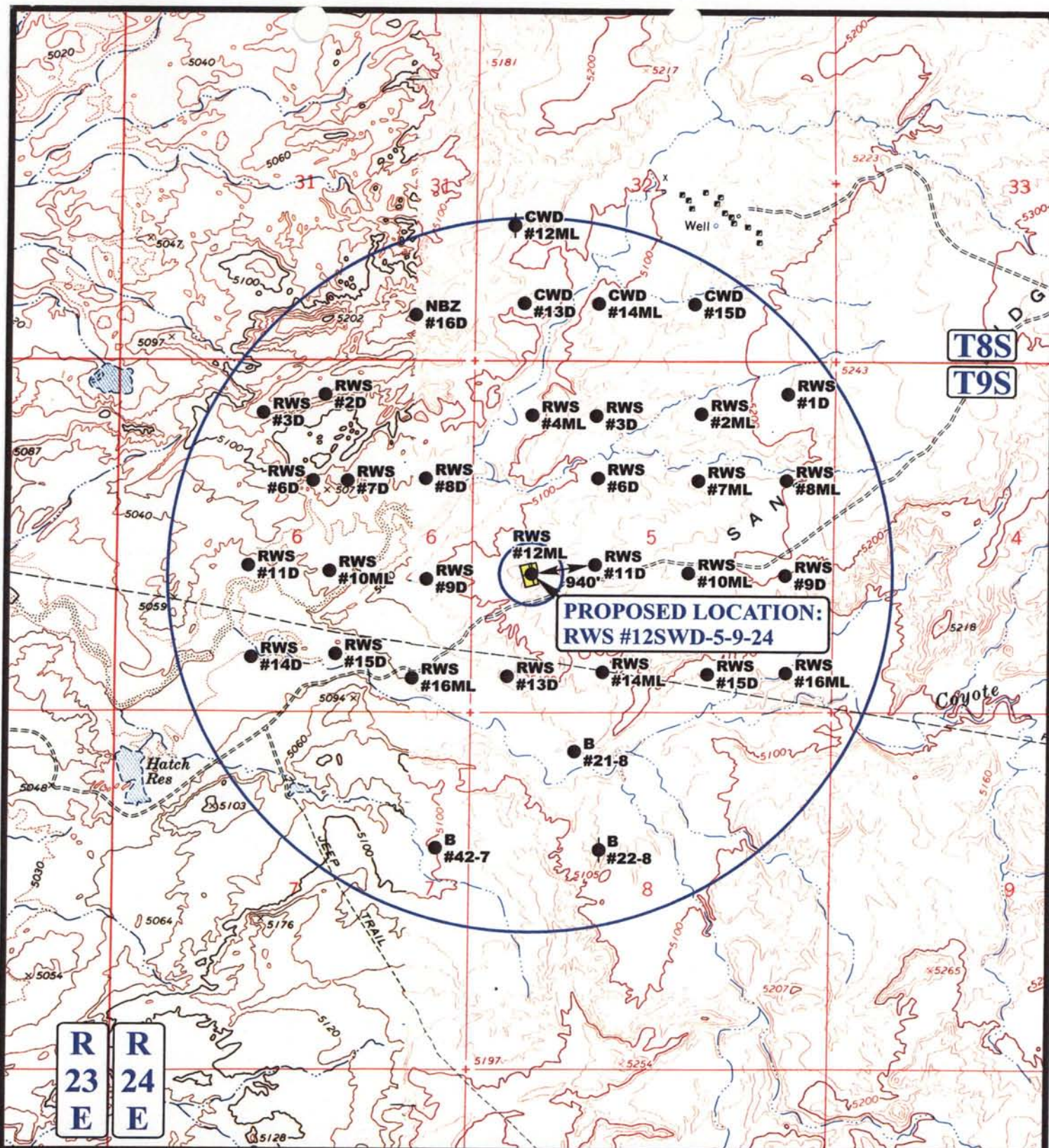
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**TOPOGRAPHIC
MAP**

02 12 08
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

QUESTAR EXPLR. & PROD.

RWS #12SWD-5-9-24
SECTION 5, T9S, R24E, S.L.B.&M.
2033' FSL 859' FWL



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC
MAP

02 **12** **08**
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Attachment Q

PLUGGING AND ABANDONMENT PLAN

WELL NAME & NUMBER, FIELD NAME, LEASE NAME & NUMBER	NAME, ADDRESS, & PHONE NUMBER OF OWNER / OPERATOR
RWS 12SWD-5-9-24 Big Valley Unit Lease # UTU-73456	QEP Uinta Basin, Inc. 11002 East 17500 South Vernal, Utah 84078

Locate Well and Outline Unit on Section Plat - 640 Acres 	STATE Utah	COUNTY Uintah	PERMIT NUMBER
	SURFACE LOCATION DESCRIPTION		
	1/4 of 1/4 of NW 1/4 of SW 1/4 of Section 5 Township 9S Range 24E		
	LOCATE WELL IN TWO DIRECTIONS FROM NEAREST LINES OF QUARTER SECTION AND DRILLING UNIT		
Surface Location 2033 ft. From (N/S) South Line of Quarter Section And 859 ft. From (E/W) West Line of Quarter Section			
TYPE OF AUTHORIZATION		WELL ACTIVITY	
<input checked="" type="checkbox"/> Individual Permit <input type="checkbox"/> Rule <input type="checkbox"/> Area Permit Number of Wells 1		<input type="checkbox"/> Class I <input type="checkbox"/> Hazardous <input type="checkbox"/> Nonhazardous <input checked="" type="checkbox"/> Class II <input checked="" type="checkbox"/> Brine Disposal <input type="checkbox"/> Hydrocarbon Storage <input type="checkbox"/> Enhanced Recovery <input type="checkbox"/> Class III	
Lease Name Big Valley Unit		Well Number RWS 12SWD-5-9-24	

CASING AND TUBING RECORD AFTER PLUGGING					METHOD OF EMPLACEMENT OF CEMENT PLUGS
SIZE	WT (LB/FT)	TO BE PUT IN WELL (FT)	TO BE LEFT IN WELL (FT)	HOLE SIZE (INSIDE DIAMETER)	<input checked="" type="checkbox"/> The Balance Method <input type="checkbox"/> The Dump Bailer Method <input type="checkbox"/> The Two Plug Method <input type="checkbox"/> Other
9-5/8"	47#	1760'	1760'	12.25	

CEMENT TO PLUG AND ABANDON DATA	Plug # 1	Plug # 2	Plug # 3	Plug # 4	Plug # 5	Plug # 6	Plug # 7
Size of Hole or Pipe in Which Plug Will Be Placed (inches)	9 5/8"	9 5/8"					
Depth to Bottom of Tubing or Drill Pipe (ft)	1860	200					
Sacks of Cement to be used (each plug)	83	76					
Slurry Volume to be Pumped (cu. ft)	95.5	89					
Calculated Top of Plug (ft)	1460	0					
Measured Top of Plug (if tagged ft.)							
Slurry Weight (Lb./Gal.)	16.4	16.4					
Type Cement or Other Material (Class III)	Class "G"	Class "G"					

LIST ALL OPEN HOLE AND/OR PERFORATED INTERVALS AND INTERVALS WHERE CASING WILL BE VARIED (if any)			
From	To	From	To
1760	1900		

Estimated Cost to Plug Wells

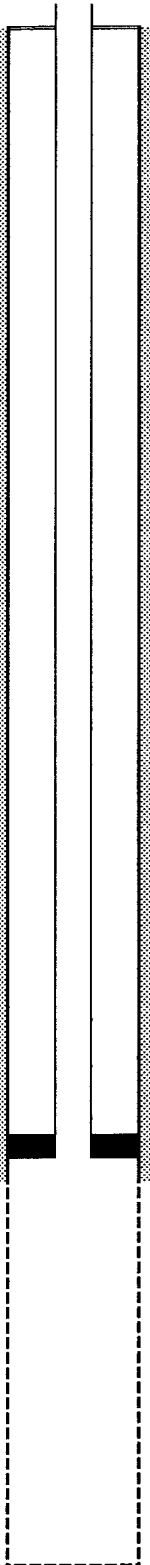
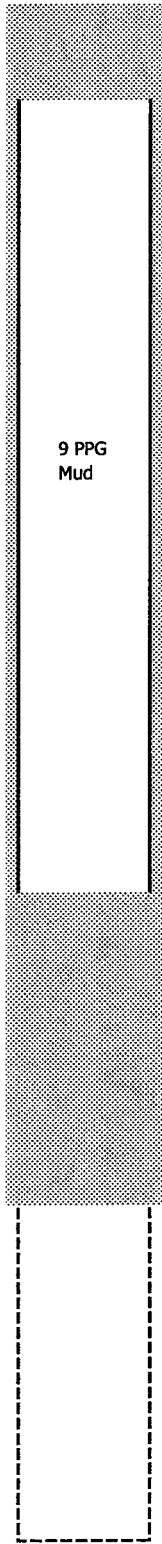
\$32,000.00

CERTIFICATION

I certify under the penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. (Ref.40 CFR 144.32)

NAME AND OFFICIAL TITLE (Please type or print)	SIGNATURE	DATE SIGNED
Kirk Fleetwood, Petroleum Engineer		8/12/2008

FIELD: Redwash South	GL: 5,127 ' KBE: '
Well: RWS 12SWD-5-9-24	TD: 1,900 ' PBTD: '
Location - surface: NWSW Sec. 5, T9S, R24E	
API#:43-047- Uintah County, Utah	

Proposed Completion	Proposed Plugging
 <p>Casing Size: 9-5/8" Weight: 36# Grade: P-110 Set @ 1760' Cmtd w/ 490 sks Hole size: 12-1/4"</p> <p>Open Hole Size: 6.25" 1760-1900'</p> <p>Packer @ ±1725'</p>	 <p>Plug #2 200'</p> <p>9 PPG Mud</p> <p>1460'</p> <p>Plug #1</p> <p>1860'</p>



Questar Exploration and Production Company
180 East 100 South
P.O. Box 45601
Salt Lake City, UT 84145-0601
Tel 801 324 2600 • Fax 801 324 2001

May 29, 2008

Via FEDEX

Britta Copt
Office of Enforcement, Compliance & Environmental Justice
U. S. Environmental Protection Agency, Region 8
1595 Wynkoop (8ENF-UFO)
Denver, CO 80202-1129

RE: QEP Uinta Basin, Inc.
Bond 965-003-769

Please find enclosed for handling a Change Rider to the referenced bond to change the name of the principal on the bond to Questar Exploration and Production Company and to update the dollar amount based on the EPA-compiled average industry cost for plugging and abandoning injection wells in our geographic region, which is \$59,344 per well. The amount of the bond will be increased from \$2,070,000 to \$6,290,464 to comply with the federal financial assurance requirement. I'm also including a copy of the EPA well listing updated as of 5/21/08.

Please sign your acceptance of the Rider where indicated and return a copy to my attention at the letterhead address.

Thank you for your immediate attention in this regard. If you have any questions or need further information regarding the bond, please don't hesitate to contact me at (801) 324-2678.

Sincerely,

A handwritten signature in cursive script that reads "Renita Johnson".

Renita Johnson
Risk Management – QMR

CHANGE RIDER

Rider to be attached to and form a part of Bond Number 965003769, dated the
6th day of December, 2003, executed by Liberty Mutual Insurance
Company (the "Surety") on behalf of QEP Uinta Basin, Inc.
(the "Principal")
in favor of U. S. Environmental Protection Agency
(the "Obligee")

The Principal and the Surety hereby consent to changing the attached bond as follows:

The name of the principal shall be changed :

FROM: QEP Uinta Basin, Inc.

TO: Questar Exploration and Production Company

The amount of the bond shall be increased :

FROM: Two million seventy thousand and no/100-----(\$2,070,000.00)

TO: Six million two hundred ninety thousand four hundred sixty four and no/100-
(\$6,290,464.00)

This change is effective 30th day of May, 2008 .

The attached bond shall be subject to all of its terms, conditions and limitations except as
herein modified.


Signed, sealed and dated this 22nd day of May, 2008 .

WITNESS or ATTEST:



Questar Exploration and Production Company_

(Principal)

By:  _____ (Seal)

Name: C. B. Stanley

Title: President & CEO

Liberty Mutual Insurance Company(Surety)

By:  _____ (Seal)

Bette J. Croshaw Attorney-in-Fact

ACCEPTED:

Name: _____ (Obligee)

Title: _____

Date: _____

THIS POWER OF ATTORNEY IS NOT VALID UNLESS IT IS PRINTED ON RED BACKGROUND.

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint **JONATHAN M. JEPSEN, WILLIAM R. MORETON, PHILIP S. WALTER, BETTE J. CROSHAW, JUDY PARRY, VALORIE JARVIS, ALL OF THE CITY OF SALT LAKE CITY, STATE OF UTAH**.....

....., each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding **ONE HUNDRED TWENTY FIVE MILLION AND 00/100***** DOLLARS (\$ 125,000,000.00*****)** each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, Garnet W. Elliott, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this 13th day of March, 2008.

LIBERTY MUTUAL INSURANCE COMPANY

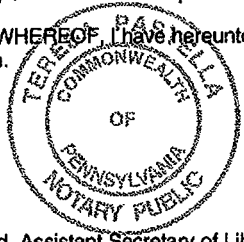


By Garnet W. Elliott
Garnet W. Elliott, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss
COUNTY OF MONTGOMERY

On this 13th day of March, 2008, before me, a Notary Public, personally came Garnet W. Elliott, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written.



COMMONWEALTH OF PENNSYLVANIA
Notarial Seal
Teresa Pastella, Notary Public
Plymouth Twp., Montgomery County
My Commission Expires Mar. 28, 2009
Member, Pennsylvania Association of Notaries

By Teresa Pastella
Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED that the facsimile or mechanically reproduced signature of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 22nd day of May, 2008.



By David M. Carey
David M. Carey, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

Questar Exploration and Production Company
EPA UIC Well List

Bond # 965-003-769

Schedule A
Revised 05/21/08

NEW WELL NAME	API Number	Location	Bond Portion	UIC Permit #
RW 14-24A	43-047-15166	SWSW Section 24-T7S-R22E	\$59,344.00	UT20949-06160
GB 3-17	43-047-31556	SESE Section 17-T8S-R22E	\$59,344.00	UT20967-06377
WV 3G-8-8-22	43-047-34596	NENW Section 8-T8S-R22E	\$59,344.00	UT20954-06195
RW 33-30B	43-047-33790	NWSE Section 30-T7S-R23E	\$59,344.00	UT2928-04650
RW 11-30B	43-047-33785	NWNW Section 30-T7S-R23E	\$59,344.00	UT2929-04658
RW 13-20B	43-047-33498	NWSW Section 20-T7S-R23E	\$59,344.00	UT2896-04605
RW 33-20B	43-047-33500	NWSE Section 20-T7S-R23E	\$59,344.00	UT2895-04604
RW 33-19B	43-047-33499	NWSE Section 19-T7S-R23E	\$59,344.00	UT2903-04611
RW 13-19B	43-047-33497	NWSW Section 19-T7S-R23E	\$59,344.00	UT2897-04606
RW 11-20B	43-047-33553	NWNW Section 20-T7S-R23E	\$59,344.00	UT2894-04603
RW 11-19B	43-047-33552	NWNW Section 19-T7S-R23E	\$59,344.00	UT2902-04610
RW 34-24A	43-047-33568	SWSE Section 24-T7S-R22E	\$59,344.00	UT2898-04607
RW 11-25A	43-047-33574	NWNW Section 25-T7S-R22E	\$59,344.00	UT2900-04609
RW 31-25A	43-047-33577	NWNE Section 25-T7S-R22E	\$59,344.00	UT2899-04608
RW 33-25A	43-047-33578	NWSE Section 25-T7S-R22E	\$59,344.00	UT2904-04612
RW 31-19B	43-047-33555	NWNE Section 19-T7S-R23E	\$59,344.00	UT2911-04616
RW 11-29B	43-047-33590	NWNW Section 29-T7S-R23E	\$59,344.00	UT2915-04629
RW 13-25A	43-047-33575	NWSW Section 25-T7S-R22E	\$59,344.00	UT2925-04648
RW 31-30B	43-047-33788	NWNE Section 30-T7S-R23E	\$59,344.00	UT2926-04649
RW 34-13A	43-047-33593	SWSE Section 13-T7S-R22E	\$59,344.00	UT2922-04643
RW 12-24A	43-047-33591	SWNW Section 24-T7S-R22E	\$59,344.00	UT2921-04642
RW 23-18B	43-047-15210	NESW Section 18-T7S-R23E	\$59,344.00	UT2000-02404
RW 41-24A	43-047-15221	SENE Section 24-T7S-R22E	\$59,344.00	UT2000-02406
RW 23-17B	43-047-32739	NESW Section 17-T7S-R23E	\$59,344.00	UT2835-04402
RW 43-18B	43-047-32982	NESE Section 18-T7S-R23E	\$59,344.00	UT2833-04400
RW 41-20B	43-047-15146	NENE Section 17-T7S-R23E	\$59,344.00	UT2810-04346
RW 14-24B	43-047-16472	SWSW Section 24-T7S-R23E	\$59,344.00	UT2000-02416
RW 41-21B	43-047-16482	NENE Section 21-T7S-R23E	\$59,344.00	UT2000-02426
RW 41-27B	43-047-16473	NENE Section 27-T7S-R23E	\$59,344.00	UT2000-02417
RW 34-27B	43-047-15142	SWSE Section 27-T7S-R23E	\$59,344.00	UT2000-02395
RW 14-13B	43-047-15144	SWSW Section 13-T7S-R23E	\$59,344.00	UT2000-02396
RW 21-23B	43-047-15151	NENW Section 23-T7S-R23E	\$59,344.00	UT2000-02397
RW 23-23B	43-047-16476	NESW Section 23-T7S-R23E	\$59,344.00	UT2000-02420
RW 23-14B	43-047-15161	NWSW Section 14-T7S-R23E	\$59,344.00	UT2000-02398
RW 32-19B	43-047-15174	SWNE Section 19-T7S-R23E	\$59,344.00	UT2000-02399
RW 41-28B	43-047-15182	NENE Section 28-T7S-R23E	\$59,344.00	UT2000-02400
RW 12-24B	43-047-16477	SWNW Section 24-T7S-R23E	\$59,344.00	UT2000-02421
RW 33-22B	43-047-16479	NWSE Section 22-T7S-R23E	\$59,344.00	UT2000-02423
RW 43-27B	43-047-16480	NESE Section 27-T7S-R23E	\$59,344.00	UT2000-02424
RW 23-18C	43-047-15216	NESW Section 18-T7S-R24E	\$59,344.00	UT2000-02405
RW 13-22B	43-047-15261	NWSW Section 22-T7S-R23E	\$59,344.00	UT2000-02407
RW 31-22B	43-047-15263	NWNE Section 22-T7S-R23E	\$59,344.00	UT2000-02408
RW 23-15B	43-047-15267	NESW Section 15-T7S-R23E	\$59,344.00	UT2000-02409
RW 21-21B	43-047-16496	NENW Section 21-T7S-R23E	\$59,344.00	UT2000-02439
RW 21-20B	43-047-15281	NENW Section 20-T7S-R23E	\$59,344.00	UT2000-02411
RW 14-21B	43-047-16497	SWSW Section 21-T7S-R23E	\$59,344.00	UT2000-02440

RW 33-13B	43-047-15289	NWSE Section 13-T7S-R23E	\$59,344.00	UT2000-02412
RW 41-14B	43-047-16498	NENE Section 14-T7S-R23E	\$59,344.00	UT2000-02441
RW 41-33B	43-047-20060	NENE Section 33-T7S-R23E	\$59,344.00	UT2661-02444
RW 31-35B	43-047-30519	NWNE Section 35-T7S-R23E	\$59,344.00	UT2000-02449
RW 43-17B	43-047-32980	NESE Section 17-T7S-R23E	\$59,344.00	UT2832-04399
RW 42-35B	43-047-31081	SENE Section 35-T7S-R23E	\$59,344.00	UT2000-02458
RW 31-26B	43-047-31077	NWNE Section 26-T7S-R23E	\$59,344.00	UT2000-02455
RW 11-36B	43-047-31052	NWNW Section 36-T7S-R23E	\$59,344.00	UT2000-02453
RW 34-22A	43-047-30458	SWSE Section 22-T7S-R22E	\$59,344.00	UT2812-04348
RW 43-21A	43-047-15219	NESE Section 21-T7S-R22E	\$59,344.00	UT2000-02463
RW 43-28A	43-047-30058	NESE Section 28-T7S-R22E	\$59,344.00	UT2918-02445
RW 21-27A	43-047-30103	NENW Section 27-T7S-R22E	\$59,344.00	UT2000-02446
RW 43-28B	43-047-16475	NESE Section 28-T7S-R23E	\$59,344.00	UT2000-02419
RW 41-15B	43-047-16495	NENE Section 15-T7S-R23E	\$59,344.00	UT2000-02438
RW 21-34A	43-047-15303	NENW Section 34-T7S-R22E	\$59,344.00	UT2000-02415
RW 24-26B	43-047-30518	SESW Section 26-T7S-R23E	\$59,344.00	UT2000-02448
RW 33-26B	43-047-30521	NWSE Section 26-T7S-R23E	\$59,344.00	UT2000-02451
RW 13-26B	43-047-30522	NWSW Section 26-T7S-R23E	\$59,344.00	UT2000-02452
BRENNAN 5	43-047-15420	SENE Section 18-T7S-R21E	\$59,344.00	UT2807-04341
BRENNAN 11	43-047-32772	SESW Section 18-T7S-R21E	\$59,344.00	UT2807-04342
WV 120	43-047-32462	NENW Section 22-T8S-R21E	\$59,344.00	UT2770-04264
WV 16	43-047-15447	NENE Section 15-T8S-R21E	\$59,344.00	UT2000-02469
WV 21	43-047-15452	NENE Section 16-T8S-R21E	\$59,344.00	UT2000-02471
WV 31	43-047-15460	NENW Section 14-T8S-R21E	\$59,344.00	UT2000-02384
WV 36	43-047-15464	NESW Section 10-T8S-R21E	\$59,344.00	UT2000-02479
WV 41	43-047-15469	NENW Section 15-T8S-R21E	\$59,344.00	UT2000-02483
WV 50	43-047-15477	SENE Section 15-T8S-R21E	\$59,344.00	UT2563-03504
WV 59	43-047-20018	SWNW Section 14-T8S-R21E	\$59,344.00	UT2564-03505
WV 60	43-047-20019	SWSE Section 15-T8S-R21E	\$59,344.00	UT2565-03506
WV 67	43-047-20043	NESW Section 15-T8S-R21E	\$59,344.00	UT2000-02497
WV 68	43-047-20047	NESE Section 15-T8S-R21E	\$59,344.00	UT2000-02498
WV 72	43-047-20058	SWSW Section 16-T8S-R21E	\$59,344.00	UT2000-02501
WV 73	43-047-20066	NESE Section 16-T8S-R21E	\$59,344.00	UT2000-02502
WV 78	43-047-20115	NESW Section 16-T8S-R21E	\$59,344.00	UT2000-02504
WV 126	43-047-30796	NWNE Section 21-T8S-R21E	\$59,344.00	UT2000-02509
WV 140	43-047-31707	NWNW Section 15-T8S-R21E	\$59,344.00	UT2567-03508
WV 143	43-047-31808	NWSE Section 10-T8S-R21E	\$59,344.00	UT2568-03509
WV 28-2	43-047-31524	NESW Section 11-T8S-R21E	\$59,344.00	UT2000-02510
WV 40-2	43-047-31798	NESE Section 10-T8S-R21E	\$59,344.00	UT2000-02511
WV 71-2	43-047-32449	SWSW Section 15-T8S-R21E	\$59,344.00	UT2712-03777
WV 35	43-047-15463	NESW Section 14-T8S-R21E	\$59,344.00	UT2813-04351
WV 97	43-047-30014	NWSW Section 11-T8S-R21E	\$59,344.00	UT2814-04350
GH 1-20	43-047-31006	NESW Section 20-T8S-R21E	\$59,344.00	UT2726-03792
GH 2-20	43-047-31066	NESE Section 20-T8S-R21E	\$59,344.00	UT2634-03722
GH 3-21	43-047-31604	SWNW Section 21-T8S-R21E	\$59,344.00	UT2540-02714
GH 3	43-047-20002	NENE Section 20-T8S-R21E	\$59,344.00	UT2759-04241
GH 6	43-047-30099	NENW Section 20-T8S-R21E	\$59,344.00	UT2760-04242
GH 8	43-047-31932	SWNE Section 20-T8S-R21E	\$59,344.00	UT2541-02715
GH 10	43-047-32306	NWSE Section 21-T8S-R20E	\$59,344.00	UT2632-03721
GH 12	43-047-32458	NESE Section 19-T8S-R21E	\$59,344.00	UT2727-03794
GH 15	43-047-32648	SWSW Section 20-T8S-R21E	\$59,344.00	UT2804-04336
GH 17	43-047-32649	SWSE Section 20-T8S-R21E	\$59,344.00	UT2805-04337
GB 6-16	43-047-32549	SENE Section 16-T8S-R22E	\$59,344.00	UT2878-04539
GB 15-19-8-22	43-047-32756	SWSE Section 19-T8S-R22E	\$59,344.00	UT2806-04338
GB 7-16	43-047-32582	SWNE Section 16-T8S-R22E	\$59,344.00	UT2803-04335

GB 22-20	43-047-31356	SENW Section 20-T8S-R22E	\$59,344.00	UT2755-04235
GB 12-16	43-047-32583	NWSW Section 16-T8S-R22E	\$59,344.00	UT2765-04248
RW 14-18B	43-047-15178	SWSW Section 18-T7S-R23E	\$59,344.00	UT2811-04347
RW 44-26B	43-047-30520	SESE Section 26-T7S-R23E	\$59,344.00	UT2000-02450
RW 43-15B	43-047-31682	NESE Section 15-T7S-R23E	\$59,344.00	UT2834-04401
TOTAL WELLS: 106			\$6,290,464.00	

SURETY PERFORMANCE BOND

U.S. ENVIRONMENTAL PROTECTION AGENCY
UNDERGROUND INJECTION CONTROL
FINANCIAL RESPONSIBILITY REQUIREMENT

TO: Regional Administrator
ATTN: Underground Injection Control SENP-T

Financial Responsibility
U.S. EPA Region VIII
999 18th Street, Suite 500
Denver, Colorado 80202-2466

BOND COVERS THE PLUGGING OF INJECTION WELLS

Date bond executed: November 18, 2003

Effective Date: December 6, 2003

Principal: QEP Uinta Basin, Inc.
(Legal name of owner or operator)

180 East 100 South, Salt Lake City, UT 84111
(Business address of owner or operator)

Type of organization: corporation
(Individual, joint venture, partnership, or corporation)

State of incorporation: Delaware

Surety(ies): Liberty Mutual Insurance Company
(Name)
370 East South Temple, Suite 250, Salt Lake City, UT 84111
(Business Address)

EPA Identification number, name, address, and plugging and abandonment amount(s) for each injection well guaranteed by this bond. (Indicate plugging and abandonment amounts for each well. Attach separate list if necessary.)

Injection Well Information

Plug & Abandon Amount

See Schedule "A" for List of Wells

\$18,000 per well -- 116 wells

Total penal sum of bond: \$ 2,088,000.00

Surety's bond number: 965-003-769

KNOW ALL PERSONS BY THESE PRESENTS, That we, the Principal and Surety(ies) hereto are firmly bound to the U.S. Environmental Protection Agency (hereinafter called EPA), in the above penal sum for the payment of which we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally; provided that, where the Surety(ies) are corporations acting as co-sureties, we, the Sureties, bind ourselves in such sum "jointly and severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is it set forth opposite the name of such Surety, but if no limit of liability is indicated, the limit of liability shall be the full amount of the penal sum.

WHEREAS said Principal is required, under the Underground Injection Control Regulations, as amended, to have a permit or comply with provisions to operate under rule for each injection well identified above, and

WHEREAS said Principal is required to provide financial assurance for plugging and abandonment as a condition of the permit or approval to operate under rule, and

WHEREAS said Principal shall establish a standby trust fund as is required when a surety bond is used to provide such financial assurance;

NOW, THEREFORE, the conditions of this obligation are such that if the Principal shall faithfully perform plugging and abandonment, whenever required to do so, of each injection well for which this bond guarantees plugging and abandonment, in accordance with the plugging abandonment plan and other requirements of the permit or provisions for operating under rule and other requirements of the permit or provisions for operating under rule as may be amended, pursuant to all applicable laws, statutes, rules and regulations, as such laws, statutes, rules, and regulations may be amended,

Or, if the Principal shall provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain the EPA Regional Administrator's written approval of such assurance, within 90 days after the date of notice of cancellation is received by both the Principal and the EPA Regional Administrator(s), from the Surety(ies), then this obligation shall be null and void. Otherwise it is to remain in full force and effect.

The Surety(ies) shall become liable on this bond obligation only when the Principal has failed to fulfill the conditions described above.

Upon notification by an EPA Regional Administrator that the Principal has been found in violation of the plugging and abandonment requirements of 40 CFR 144, for an injection well which

this bond guarantees performances of plugging and abandonment, the Surety(ies) shall either perform plugging and abandonment with the plugging and abandonment plan and other permit conditions or provisions for operating under rule and other requirements or place the amount for plugging and abandonment into a standby trust fund as directed by the EPA Regional Administrator.

Upon notification by an EPA Regional Administrator that the Principal has failed to provide alternate financial assurance as specified in Subpart F of 40 CFR 144, and obtain written approval of such assurance from the EPA Regional Administrator(s) during the 90 days following receipt by both the Principal and the EPA Regional Administrator(s) of a notice of cancellation of the bond, the Surety(ies) shall place funds in the amount guaranteed for the injection well(s) into the standby trust fund as directed by the EPA Regional Administrator.

The Surety(ies) hereby waive(s) notification of amendments to plugging and abandonment plans, permits, applicable laws, statutes, rules, and regulations and agrees that no such amendment shall in any way alleviate its (their) obligation on this bond.

The liability of the Surety(ies) shall not be discharged by any payment or succession of payments hereunder, unless and until such payment or payments shall amount in the aggregate to the penal sum of the bond, but in no event shall the obligation of the Surety(ies) hereunder exceed the amount of said penal sum.

The Surety(ies) may cancel the bond by sending notice by certified mail to the owner or operator and to the EPA Regional Administrator(s) for the Region(s) in which the injection well(s) is (are) located, provided, however, that cancellation shall not occur during the 120 days beginning on the date of receipt of the notice of cancellation by both the Principal and the EPA Regional Administrator(s), as evidenced by the return receipts.

The Principal may terminate this bond by sending written notice to the Surety(ies); provided, however, that no such notice shall become effective until the Surety(ies) receive(s) written authorization for termination of the bond by the EPA Regional Administrator(s) of the EPA Region(s) in which the bonded injection well(s) is (are) located.

(The following paragraph is an optional rider that may be included but is not required.)

Principal and Surety(ies) hereby agree to adjust the penal sum of the bond yearly so that it guarantees a new plugging and abandonment amount, provided that the penal sum does not increase by more than 20% in any one year, and no decrease in the penal sum takes place without the written permission of the EPA Regional Administrator(s).

IN WITNESS WHEREOF, The Principal and Surety(ies) have executed this Performance Bond and have affixed their seals on the date set forth above.

The persons whose signatures appear below hereby certify that they are authorized to execute this surety bond on behalf of the Principal and Surety(ies) and that the wording on this surety bond is identical to the wording specified in 40 CFR 144.70(c), as such regulation was constituted on the date this bond was executed.

PRINCIPAL:

QEP Uinta Basin, Inc.

(Name)

180 East 100 South
Salt Lake City, UT 84111

(Address)

C.B.
(Signature)

C. B. Stanley
President and CEO

(Title)

Corporate Seal

CORPORATE SURETY (IES):

Liberty Mutual Insurance Company

(Name)

370 East South Temple, Suite 250
Salt Lake City, UT 84111

(Address)

801-364-4280

(Surety Telephone Number)

Gary W. Manville
(Signature)

Gary W. Manville
Attorney-in-Fact

(Title)

Corporate Seal

Delaware
State of Incorporation

\$ 26,100.00
Bond Premium

Massachusetts
State of Incorporation

\$ 283,337,000.00
Liability Limit

(For every co-surety, provide signature(s), corporate seal, and other information in the same manner as for Surety above.)

**NOTICE FROM SURETY REQUIRED BY
TERRORISM RISK INSURANCE ACT OF 2002**

Bond No. 965-003-769

In accordance with the Terrorism Risk Insurance Act of 2002 (referred to hereinafter as the "Act"), this disclosure notice is provided for surety bonds on which one or more of the following companies is the issuing surety: Liberty Mutual Insurance Company; Liberty Mutual Fire Insurance Company; LM Insurance Corporation; The First Liberty Insurance Corporation; Liberty Insurance Corporation; Employers Insurance Company of Wausau (formerly "EMPLOYERS INSURANCE OF WAUSAU A Mutual Company"); Peerless Insurance Company; and any other company that is a part of or added to the Liberty Mutual Group for which surety business is underwritten by Liberty Bond Services (referred to collectively hereinafter as the "Issuing Sureties").

NOTICE FORMS PART OF BOND

This notice forms part of surety bonds issued by any one or more of the Issuing Sureties.

DISCLOSURE OF PREMIUM

The premium attributable to any bond coverage for "acts of terrorism" as defined in Section 102(1) of the Act is Zero Dollars (\$0.00).

**DISCLOSURE OF FEDERAL PARTICIPATION
IN PAYMENT OF TERRORISM LOSSES**

The United States will reimburse the Issuing Sureties for ninety percent (90%) of any covered losses from terrorist acts certified under the Act exceeding the applicable surety deductible.

This Power of Attorney limits the acts to the extent herein stated.

named herein, and they have no authority to

the Company except in the manner and to

LIBERTY MUTUAL INSURANCE COMPANY
BOSTON, MASSACHUSETTS
POWER OF ATTORNEY

1131256

KNOW ALL PERSONS BY THESE PRESENTS: That Liberty Mutual Insurance Company (the "Company"), a Massachusetts stock insurance company, pursuant to and by authority of the By-law and Authorization hereinafter set forth, does hereby name, constitute and appoint

JONATHAN M. JEPSEN, GARY W. MANVILLE, WILLIAM R. MORETON, SHARRON RUSHTON, PHILIP S. WALTER, BETTE J. CROSHAW, JUDY PARRY, ALL OF THE CITY OF SALT LAKE CITY, STATE OF UTAH

each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations in the penal sum not exceeding TWENTY-FIVE MILLION AND 00/100 DOLLARS (\$ 25,000,000.00) each, and the execution of such undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents, shall be as binding upon the Company as if they had been duly signed by the president and attested by the secretary of the Company in their own proper persons.

That this power is made and executed pursuant to and by authority of the following By-law and Authorization:

ARTICLE XIII - Execution of Contracts: Section 5. Surety Bonds and Undertakings.

Any officer of the Company authorized for that purpose in writing by the chairman or the president, and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Company by their signature and execution of any such instruments and to attach thereto the seal of the Company. When so executed such instruments shall be as binding as if signed by the president and attested by the secretary.

By the following instrument the chairman or the president has authorized the officer or other official named therein to appoint attorneys-in-fact:

Pursuant to Article XIII, Section 5 of the By-Laws, Timothy C. Mulloy, Assistant Secretary of Liberty Mutual Insurance Company, is hereby authorized to appoint such attorneys-in-fact as may be necessary to act in behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

That the By-law and the Authorization set forth above are true copies thereof and are now in full force and effect.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of Liberty Mutual Insurance Company has been affixed thereto in Plymouth Meeting, Pennsylvania this 20th day of November 2002.

LIBERTY MUTUAL INSURANCE COMPANY

By Timothy C. Mulloy
Timothy C. Mulloy, Assistant Secretary

COMMONWEALTH OF PENNSYLVANIA ss.
COUNTY OF MONTGOMERY



On this 20th day of November, 2002, before me, a Notary Public, personally came Timothy C. Mulloy, to me known, and acknowledged that he is an Assistant Secretary of Liberty Mutual Insurance Company; that he knows the seal of said corporation; and that he executed the above Power of Attorney and affixed the corporate seal of Liberty Mutual Insurance Company thereto with the authority and at the direction of said corporation.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at Plymouth Meeting, Pennsylvania, on the day and year first above written:



Notary Seal
Teresa Pastella, Notary Public
Plymouth Twp., Montgomery County
My Commission Expires March 22, 2005
Member, Pennsylvania Association of Notaries

By Teresa Pastella
Teresa Pastella, Notary Public

CERTIFICATE

I, the undersigned, Assistant Secretary of Liberty Mutual Insurance Company, do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy, is in full force and effect on the date of this certificate; and I do further certify that the officer or official who executed the said power of attorney is an Assistant Secretary specially authorized by the chairman or the president to appoint attorneys-in-fact as provided in Article XIII, Section 5 of the By-laws of Liberty Mutual Insurance Company.

This certificate and the above power of attorney may be signed by facsimile or mechanically reproduced signatures under and by authority of the following vote of the board of directors of Liberty Mutual Insurance Company at a meeting duly called and held on the 12th day of March, 1980.

VOTED: that the facsimile or mechanically reproduced signatures of any assistant secretary of the company, wherever appearing upon a certified copy of any power of attorney issued by the company in connection with surety bonds, shall be valid and binding upon the company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seal of the said company, this 18th day of November, 2002.



By John F. X. Hee
John F. X. Hee, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees.

To confirm the validity of this Power of Attorney call 1-610-832-8240 between 9:00 am and 4:30 pm EST on any business day.

QEP UINTA BASIN, INC.

EPA UIC Well List

Schedule A

Bond # 965-003-769

Uintah County, Utah

Well Name	Number	API Number	Location	Bond Portion	UIC Permit #
OUGB	1G-19-8-22	43-047-34696	NENE Section 19-T8S-R22E	\$18,000.00	UIC App Not Filed
Antelope Draw (AD)	3-17-3C	43-047-31556	SESE Section 17-T8S-R22E	\$18,000.00	UIC App Not Filed
WV	3G-8-8-22	43-047-34596	NENW Section 8-T8S-R22E	\$18,000.00	Pending Permit
WV	16W-11-8-21	43-047-34155	SESE Section 11-T8S-R21E	\$18,000.00	UIC App Not Filed
SU	15G-5-8-22	43-047-34390	SWSE Section 5-T8S-R22E	\$18,000.00	Pending Permit
SU	13G-5-8-22	43-047-34389	SWSW Section 5-T8S-R22E	\$18,000.00	Pending Permit
RWU	14-24A (#39)	43-047-15166	SWSW Section 24-T7S-R22E	\$18,000.00	Pending Permit
WV	3WRG-5-8-22	43-047-33987	NENW Section 5-T8S-R22E	\$18,000.00	UT20947-06158
RWU	33-30B	43-047-33790	NWSE Section 30-T7S-R23E	\$18,000.00	UT2928-04650
RWU	11-30B	43-047-33785	NWNW Section 30-T7S-R23E	\$18,000.00	UT2929-04658
RWU	13-20B	43-047-33498	NWSW Section 20-T7S-R23E	\$18,000.00	UT2896-04605
RWU	33-20B	43-047-33500	NWSE Section 20-T7S-R23E	\$18,000.00	UT2895-04609
RWU	33-19B	43-047-33499	NWSE Section 19-T7S-R23E	\$18,000.00	UT2903-04611
RWU	13-19B	43-047-33497	NWSW Section 19-T7S-R23E	\$18,000.00	UT2897-04606
RWU	11-20B	43-047-33553	NWNW Section 20-T7S-R23E	\$18,000.00	UT2894-04603
RWU	11-19B	43-047-33552	NWNW Section 19-T7S-R23E	\$18,000.00	UT2902-04610
RWU	34-24A	43-047-33567	SWSE Section 24-T7S-R22E	\$18,000.00	UT2898-04607
RWU	11-25A	43-047-33574	NWNW Section 25-T7S-R22E	\$18,000.00	UT2900-04609
RWU	31-25A	43-047-33577	NWNE Section 25-T7S-R22E	\$18,000.00	UT2899-04608
RWU	33-25A	43-047-33578	NWSE Section 25-T7S-R22E	\$18,000.00	UT2904-04612
RWU	31-19B	43-047-33555	NWNE Section 19-T7S-R23E	\$18,000.00	UT2911-04616
RWU	11-29B	43-047-33590	NWNW Section 29-T7S-R23E	\$18,000.00	UT2915-04629
RWU	13-25A	43-047-33575	NWSW Section 25-T7S-R22E	\$18,000.00	UT2925-04648
RWU	31-30B	43-047-33788	NWNE Section 30-T7S-R23E	\$18,000.00	UT2926-04649
RWU	34-13A	43-047-33593	SWSE Section 13-T7S-R22E	\$18,000.00	UT2922-04643
RWU	12-24A	43-047-33591	SWNW Section 24-T7S-R22E	\$18,000.00	UT2921-04642
RWU	88 (23-18B)	43-047-15210	NESW Section 18-T7S-R23E	\$18,000.00	UT2000-02404
RWU	102 (41-24A)	43-047-15221	SENE Section 24-T7S-R22E	\$18,000.00	UT2000-02406
RWU	261 (23-17B)	43-047-32739	NESW Section 17-T7S-R23E	\$18,000.00	UT2835-04402
RWU	283 (43-18B)	43-047-32982	NESE Section 18-T7S-R23E	\$18,000.00	UT2833-04400
RWU	17 (41-20B)	43-047-15146	NENE Section 17-T7S-R23E	\$18,000.00	UT2810-04346
RWU	2 (14-24B)	43-047-16472	SWSW Section 24-T7S-R23E	\$18,000.00	UT2000-02416
RWU	6 (41-21B)	43-047-16482	NENE Section 21-T7S-R23E	\$18,000.00	UT2000-02426
RWU	7 (41-27B)	43-047-15205	NENE Section 27-T7S-R23E	\$18,000.00	UT2000-02417
RWU	11 (34-27B)	43-047-15142	SWSE Section 27-T7S-R23E	\$18,000.00	UT2000-02395
RWU	14 (14-13B-L)	43-047-15144	SWSW Section 13-T7S-R23E	\$18,000.00	UT2000-02396

QEP UINTA BASIN, INC.**EPA UIC Well List****Schedule A****Bond # 965-003-769****Uintah County, Utah**

Well Name	Number	API Number	Location	Bond Portion	UIC Permit #
RWU	23 (21-23B-L)	43-047-15151	NENW Section 23-T7S-R23E	\$18,000.00	UT2000-02397
RWU	25 (23-23B-L)	43-047-16475	NESW Section 23-T7S-R23E	\$18,000.00	UT2000-02420
RWU	34 (23-14B-L)	43-047-15161	NWSW Section 14-T7S-R23E	\$18,000.00	UT2000-02398
RWU	48 (32-19B)	43-047-15174	SWNE Section 19-T7S-R23E	\$18,000.00	UT2000-02399
RWU	52 (14-18B)	43-047-15178	SWSW Section 18-T7S-R23E	\$18,000.00	UT2811-04347
RWU	56 (41-28B-L)	43-047-15182	NENE Section 28-T7S-R23E	\$18,000.00	UT2000-02400
RWU	59 (12-24B-L)	43-047-16477	SWNW Section 24-T7S-R23E	\$18,000.00	UT2000-02421
RWU	91 (33-22B)	43-047-16479	NWSE Section 22-T7S-R23E	\$18,000.00	UT2000-02423
RWU	93 (43-27B)	43-047-16480	NESE Section 27-T7S-R23E	\$18,000.00	UT2000-02424
RWU	97 (23-18C)	43-047-15216	NESW Section 18-T7S-R24E	\$18,000.00	UT2000-02405
RWU	148 (13-22B-L)	43-047-15261	NWSW Section 22-T7S-R23E	\$18,000.00	UT2000-02407
RWU	150 (31-22B)	43-047-15263	NWNE Section 22-T7S-R23E	\$18,000.00	UT2000-02408
RWU	158 (23-15B)	43-047-15267	NESW Section 15-T7S-R23E	\$18,000.00	UT2000-02409
RWU	173 (21-21B)	43-047-16496	NENW Section 21-T7S-R23E	\$18,000.00	UT2000-02439
RWU	174 (21-20B)	43-047-15281	NENW Section 20-T7S-R23E	\$18,000.00	UT2000-02411
RWU	182 (14-21B)	43-047-16497	SWSW Section 21-T7S-R23E	\$18,000.00	UT2000-02440
RWU	183 (33-13B)	43-047-15289	NWSE Section 13-T7S-R23E	\$18,000.00	UT2000-02412
RWU	185 (41-14B)	43-047-16498	NENE Section 14-T7S-R23E	\$18,000.00	UT2000-02441
RWU	213 (41-33B)	43-047-20060	NENE Section 33-T7S-R23E	\$18,000.00	UT2661-02444
RWU	264 (31-35B)	43-047-30519	NWNE Section 35-T7S-R23E	\$18,000.00	UT2000-02449
RWU	268 (43-17B)	43-047-32980	NESE Section 17-T7S-R23E	\$18,000.00	UT2832-04399
RWU	271 (42-35B)	43-047-31081	SENE Section 35-T7S-R23E	\$18,000.00	UT2000-02458
RWU	275 (31-26B-L)	43-047-31077	NWNE Section 26-T7S-R23E	\$18,000.00	UT2000-02455
RWU	279 (11-36B)	43-047-31052	NWNW Section 38-T7S-R23E	\$18,000.00	UT2000-02453
RWU	258 (34-22A)	43-047-30458	SWSE Section 22-T7S-R22E	\$18,000.00	UT2812-04348
RWU	61 (12-27A)	43-047-16478	SWNW Section 27-T7S-R22E	\$18,000.00	UT2000-02422
RWU	100A (43-21A)	43-047-15219	NESE Section 21-T7S-R22E	\$18,000.00	UT2000-02463
RWU	199 (43-22A)	43-047-15301	NESE Section 22-T7S-R22E	\$18,000.00	UT2000-02414
RWU	215 (43-28A)	43-047-30058	NESE Section 28-T7S-R22E	\$18,000.00	UT2918-02445
RWU	216 (21-27A)	43-047-30103	NENW Section 27-T7S-R22E	\$18,000.00	UT2000-02446
RWU	16 (43-28B)	43-047-16475	NESE Section 28-T7S-R23E	\$18,000.00	UT2000-02419
RWU	88 (41-13B)	43-047-16485	NENE Section 13-T7S-R23E	\$18,000.00	UT2000-02429
RWU	161 (14-20B)	43-047-15271	SWSW Section 20-T7S-R23E	\$18,000.00	UT2000-02410
RWU	170 (41-15B)	43-047-16495	NENE Section 15-T7S-R23E	\$18,000.00	UT2000-02438
RWU	202 (21-34A)	43-047-15303	NENW Section 34-T7S-R22E	\$18,000.00	UT2000-02415
RWU	263 (24-26B)	43-047-30518	SESW Section 26-T7S-R23E	\$18,000.00	UT2000-02448

QEP UINTA BASIN, INC.**EPA UIC Well List****Schedule A****Bond # 965-003-769****Uintah County, Utah**

Well Name	Number	API Number	Location	Bond Portion	UIC Permit #
RWU	265 (44-26B)	43-047-30520	SESE Section 26-T7S-R23E	\$18,000.00	UT2000-02450
RWU	288 (33-26B)	43-047-30521	NWSE Section 26-T7S-R23E	\$18,000.00	UT2000-02451
RWU	269 (13-26B)	43-047-30522	NWSW Section 26-T7S-R23E	\$18,000.00	UT2000-02452
RWU	301 (43-15B)	43-047-15205	NESE Section 15-T7S-R23E	\$18,000.00	UT2834-04401
Brennan Bottoms	5	43-047-15420	SENE Section 18-T7S-R21E	\$18,000.00	UT2807-04341
Brennan Bottoms	11	43-047-32772	SESW Section 18-T7S-R21E	\$18,000.00	UT2807-04342
WVU	7WRG-7-8-22	43-047-33503	SWNE Section 7-T8S-R22E	\$18,000.00	UT20945-06156
WVU	120	43-047-32462	NENW Section 22-T8S-R21E	\$18,000.00	UT2770-04264
WVU	16	43-047-15447	NENE Section 15-T8S-R21E	\$18,000.00	UT2000-02469
WVU	21	43-047-15452	NENE Section 16-T8S-R21E	\$18,000.00	UT2000-02471
WVU	31	43-047-15460	NENW Section 14-T8S-R21E	\$18,000.00	UT2000-02384
WVU	36	43-047-15464	NESW Section 10-T8S-R21E	\$18,000.00	UT2000-02479
WVU	41	43-047-15469	NENW Section 15-T8S-R21E	\$18,000.00	UT2000-02483
WVU	50	43-047-15477	SENE Section 15-T8S-R21E	\$18,000.00	UT2563-03504
WVU	59	43-047-20018	SWNW Section 14-T8S-R21E	\$18,000.00	UT2564-03505
WVU	60	43-047-20019	SWSE Section 15-T8S-R21E	\$18,000.00	UT2565-03506
WVU	67	43-047-20043	NESW Section 15-T8S-R21E	\$18,000.00	UT2000-02497
WVU	68	43-047-20047	NESE Section 15-T8S-R21E	\$18,000.00	UT2000-02498
WVU	72	43-047-20058	SWSW Section 16-T8S-R21E	\$18,000.00	UT2000-02501
WVU	73	43-047-20066	NESE Section 16-T8S-R21E	\$18,000.00	UT2000-02502
WVU	78	43-047-20115	NESW Section 16-T8S-R21E	\$18,000.00	UT2000-02504
WVU	128	43-047-30796	NWNE Section 21-T8S-R21E	\$18,000.00	UT2000-02509
WVU	140	43-047-31707	NWNW Section 15-T8S-R21E	\$18,000.00	UT2567-03508
WVU	143	43-047-31808	NWSE Section 10-T8S-R21E	\$18,000.00	UT2568-03509
WVU	28-2	43-047-31524	NESW Section 11-T8S-R21E	\$18,000.00	UT2000-02510
WVU	40-2	43-047-31798	NESE Section 10-T8S-R21E	\$18,000.00	UT2000-02511
WVU	71-2	43-047-32449	SWSW Section 15-T8S-R21E	\$18,000.00	UT2712-03777
WVU	35	43-047-15483	NESW Section 14-T8S-R21E	\$18,000.00	UT2813-04351
WVU	97	43-047-30014	NWSW Section 11-T8S-R21E	\$18,000.00	UT2814-04350
Costas Fed	1-20-4B	43-047-31006	NESW Section 20-T8S-R21E	\$18,000.00	UT2726-03782
Costas Fed	2-20-3B	43-047-31066	NESE Section 20-T8S-R21E	\$18,000.00	UT2634-03722
Costas Fed	3-21-1D	43-047-31604	SWNW Section 21-T8S-R21E	\$18,000.00	UT2540-02714
Gypsum Hills Unit	3	43-047-20002	NENE Section 20-T8S-R21E	\$18,000.00	UT2759-04241
Gypsum Hills Unit	6	43-047-30099	NENW Section 20-T8S-R21E	\$18,000.00	UT2760-04242
Gypsum Hills Unit	8	43-047-31932	SWNE Section 20-T8S-R21E	\$18,000.00	UT2541-02715
Gypsum Hills Unit	10	43-047-32306	NWSE Section 21-T8S-R20E	\$18,000.00	UT2632-03721

QEP UINTA BASIN, INC.**EPA UIC Well List****Schedule A****Bond # 965-003-769****Uintah County, Utah**

Well Name	Number	API Number	Location	Bond Portion	UIC Permit #
Gypsum Hills Unit	12	43-047-32458	NESE Section 19-T8S-R21E	\$18,000.00	UT2727-03794
Gypsum Hills Unit	15	43-047-32648	SWSW Section 20-T8S-R21E	\$18,000.00	UT2804-04336
Gypsum Hills Unit	17	43-047-32649	SWSE Section 20-T8S-R21E	\$18,000.00	UT2805-04337
Glen Bench	6-16-8-22	43-047-32549	SENE Section 16-T8S-R22E	\$18,000.00	UT2878-04539
Glen Bench	15-19-8-22	43-047-32756	SWSE Section 19-T8S-R22E	\$18,000.00	UT2806-04338
Glen Bench	7-16-8-22	43-047-32582	SWNE Section 16-T8S-R22E	\$18,000.00	UT2803-04335
Glen Bench	22-20-8-22	43-047-31356	SENE Section 20-T8S-R22E	\$18,000.00	UT2755-04235
Glen Bench	12-16-8-22	43-047-32583	NWSW Section 16-T8S-R22E	\$18,000.00	UT2765-04248
Total 116				\$2,088,000.00	

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 08/25/2008

API NO. ASSIGNED: 43-047-40341

WELL NAME: 12SWD-5-9-24

OPERATOR: QUESTAR EXPLORATION & (N5085)

CONTACT: RICK CANTERBURY

PHONE NUMBER: 435-781-4362

PROPOSED LOCATION:

NWSW 05 090S 240E

SURFACE: 2033 FSL 0859 FWL

BOTTOM: 2033 FSL 0859 FWL

COUNTY: UINTAH

LATITUDE: 40.06319 LONGITUDE: -109.2437

UTM SURF EASTINGS: 649789 NORTHINGS: 4436038

FIELD NAME: BIG VALLEY (791)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
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Engineering		
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Geology		
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Surface		
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LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-73456

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. ESB000024)

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit
(No. 49-2153)

☒ RDCC Review (Y/N)
(Date:)

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: BIG VALLEY

☒ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

___ Drilling Unit

Board Cause No: _____

Eff Date: _____

Siting: _____

___ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____

1- Fed. Approval
2- Spacing Str

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

September 4, 2008

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2008 Plan of Development Big Valley Unit, Uintah County,
Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following salt water disposal well is planned for calendar year 2008 within the Big Valley, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed DZ Bird's Nest)		
43-047-40341 12SWD-5-9-24 Sec 05 T09S R24E 2033 FSL 0859 FWL		

This office has no objection to permitting the well at this time.

/s/ Michael L. Coulthard

bcc: File – Big Valley Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:9-4-08



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

September 8, 2008

Questar Exploration & Production Company
11002 E 17500 S
Vernal, UT 84078

Re: 12SWD-5-9-24 Well, 2033' FSL, 859' FWL, NW SW, Sec. 5, T. 9 South, R. 24 East,
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40341.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

Operator: Questar Exploration & Production Company
Well Name & Number 12SWD-5-9-24
API Number: 43-047-40341
Lease: UTU-73456

Location: NW SW **Sec.** 5 **T.** 9 South **R.** 24 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73456			
1. TYPE OF WELL Water Disposal Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: QUESTAR EXPLORATION & PRODUCTION CO		7. UNIT or CA AGREEMENT NAME: BIG VALLEY			
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, UT, 84078		8. WELL NAME and NUMBER: 12SWD-5-9-24			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2033 FSL 0859 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 05 Township: 09.0S Range: 24.0E Meridian: S		9. API NUMBER: 43047403410000			
PHONE NUMBER: 435 781-4362 Ext		9. FIELD and POOL or WILDCAT: BIG VALLEY			
COUNTY: UTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/8/2010 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Questar Exploration and Production Company hereby requests a one year extension for the APD on the above captioned well.					
<div style="text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining </div>		Date: September 09, 2009			
By:					
NAME (PLEASE PRINT) Jan Nelson		PHONE NUMBER 435 781-4331			
SIGNATURE N/A		TITLE Permit Agent			
		DATE 9/8/2009			



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047403410000

API: 43047403410000

Well Name: 12SWD-5-9-24

Location: 2033 FSL 0859 FWL QTR NSW SEC 05 TWNP 090S RNG 240E MER S

Company Permit Issued to: QUESTAR EXPLORATION & PRODUCTION CO

Date Original Permit Issued: 9/8/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Jan Nelson

Date: 9/8/2009

Title: Permit Agent **Representing:** QUESTAR EXPLORATION & PRODUCTION CO

Date: September 09, 2009

By:

RECEIVED September 08, 2009

OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING

CDW

Change of Operator (Well Sold)

X - Operator Name Change

The operator of the well(s) listed below has changed, effective:

6/14/2010**FROM: (Old Operator):**

N5085-Questar Exploration and Production Company

1050 17th St, Suite 500

Denver, CO 80265

Phone: 1 (303) 308-3048

TO: (New Operator):

N3700-QEP Energy Company

1050 17th St, Suite 500

Denver, CO 80265

Phone: 1 (303) 308-3048

CA No.**Unit:****BIG VALLEY**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
12SWD-5-9-24	05	090S	240E	4304740341		Federal	WD	APD

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/28/2010
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/28/2010
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/24/2010
- a. Is the new operator registered in the State of Utah: Business Number: 764611-0143
- a. (R649-9-2) Waste Management Plan has been received on: Requested
- b. Inspections of LA PA state/fee well sites complete on: n/a
- c. Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 8/16/2010 BIA not yet
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: 8/16/2010
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 6/29/2010

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 6/30/2010
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/30/2010
- Bond information entered in RBDMS on: 6/30/2010
- Fee/State wells attached to bond in RBDMS on: 6/30/2010
- Injection Projects to new operator in RBDMS on: 6/30/2010
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: ESB000024
- Indian well(s) covered by Bond Number: 965010693
- a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 965010695
- b. The **FORMER** operator has requested a release of liability from their bond on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: n/a

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1 TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER See attached
2 NAME OF OPERATOR Questar Exploration and Production Company <i>N5085</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: See attached
3 ADDRESS OF OPERATOR: 1050 17th Street, Suite 500 Denver STATE <i>CO</i> ZIP <i>80265</i>		7. UNIT or CA AGREEMENT NAME: See attached
4. LOCATION OF WELL FOOTAGES AT SURFACE: See attached		8. WELL NAME and NUMBER: See attached
PHONE NUMBER: (303) 672-6900		9. API NUMBER: Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		10. FIELD AND POOL, OR WILDCAT: See attached
COUNTY: Attached		STATE: UTAH

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: <u>6/14/2010</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Operator Name</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>Change</u>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Effective June 14, 2010 Questar Exploration and Production Company changed its name to QEP Energy Company. This name change involves only an internal corporate name change and no third party change of operator is involved. The same employees will continue to be responsible for operations of the properties described on the attached list. All operations will continue to be covered by bond numbers:

Federal Bond Number: 965002976 (BLM Reference No. ESB000024)

Utah State Bond Number: ~~965003033~~

Fee Land Bond Number: ~~965003033~~

BIA Bond Number: ~~799446~~ *965010693*

The attached document is an all inclusive list of the wells operated by Questar Exploration and Production Company. As of June 14, 2010 QEP Energy Company assumes all rights, duties and obligations as operator of the properties as described on the list

NAME (PLEASE PRINT) <u>Morgan Anderson</u>	TITLE <u>Regulatory Affairs Analyst</u>
SIGNATURE <i>Morgan Anderson</i>	DATE <u>6/23/2010</u>

(This space for State use only)

RECEIVED

JUN 28 2010

DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

APPROVED *6/30/2009*

Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, UT 84145-0155
<http://www.blm.gov/ut/st/en.html>



IN REPLY REFER TO:
3100
(UT-922)

JUL 28 2010

Memorandum

To: Vernal Field Office, Price Field Office, Moab Field Office
From: Chief, Branch of Minerals *Roger L Bankert*
Subject: Name Change Recognized

Attached is a copy of the Certificate of Name Change issued by the Texas Secretary of State and a decision letter recognizing the name change from the Eastern States Office. We have updated our records to reflect the name change in the attached list of leases.

The name change from **Questar Exploration and Production Company** into **QEP Energy Company** is effective June 8, 2010.

cc: MMS
UDOGM

RECEIVED

AUG 16 2010

DIV. OF OIL, GAS & MINERALS

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

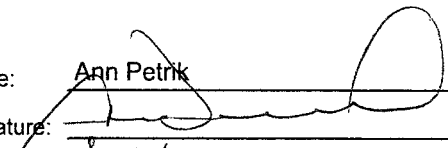
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number See Attached List	API Number Attached
Location of Well Footage : Attached County : QQ, Section, Township, Range: State : UTAH	Field or Unit Name Attached Lease Designation and Number Attached

EFFECTIVE DATE OF TRANSFER: 6/14/2010

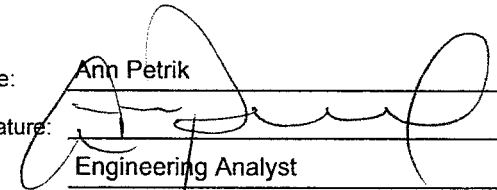
CURRENT OPERATOR

Company: Questar Exploration and Production Company
Address: 1050 17th Street, Suite 500
city Denver state CO zip 80265
Phone: (303) 672-6900
Comments:

Name: Ann Petrik
Signature: 
Title: Engineering Analyst
Date: 6/28/2010

NEW OPERATOR

Company: QEP Energy Company
Address: 1050 17th Street, Suite 500
city Denver state CO zip 80265
Phone: (303) 672-6900
Comments:

Name: Ann Petrik
Signature: 
Title: Engineering Analyst
Date: 6/28/2010

(This space for State use only)

Transfer approved by: _____

Approval Date: _____

Title: _____

Comments:

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 6/29/10
By: D. Jones

EPA approved well

RECEIVED

JUN 28 2010

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73456			
1. TYPE OF WELL Water Disposal Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: BIG VALLEY			
3. ADDRESS OF OPERATOR: 11002 East 17500 South, Vernal, Ut, 84078		8. WELL NAME and NUMBER: 12SWD-5-9-24			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2033 FSL 0859 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 05 Township: 09.0S Range: 24.0E Meridian: S		9. API NUMBER: 43047403410000			
PHONE NUMBER: 303 308-3068 Ext		9. FIELD and POOL or WILDCAT: BIG VALLEY			
COUNTY: UINTAH		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. QEP ENERGY COMPANY HEREBY REQUESTS A ONE YEAR EXTENSION FOR THE APD ON THE ABOVE CAPTIONED WELL.					
Approved by the Utah Division of Oil, Gas and Mining					
Date: <u>September 09, 2010</u>					
By:					
NAME (PLEASE PRINT) Jan Nelson	PHONE NUMBER 435 781-4331	TITLE Permit Agent			
SIGNATURE N/A	DATE 9/7/2010				



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources
Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047403410000

API: 43047403410000

Well Name: 12SWD-5-9-24

Location: 2033 FSL 0859 FWL QTR NSW SEC 05 TWNP 090S RNG 240E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 9/8/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
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- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Approved by the
Utah Division of
Oil, Gas and Mining**

Signature: Jan Nelson

Date: 9/7/2010

Title: Permit Agent **Representing:** QEP ENERGY COMPANY

Date: September 09, 2010

By: 

RECEIVED September 07, 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73456			
1. TYPE OF WELL Water Disposal Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: BIG VALLEY			
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2033 FSL 0859 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 05 Township: 09.0S Range: 24.0E Meridian: S		9. API NUMBER: 43047403410000			
9. FIELD and POOL or WILDCAT: BIG VALLEY		COUNTY: UINTAH			
STATE: UTAH					
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/8/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: 			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. QEP ENERGY COMPANY HEREBY REQUESTS A ONE YEAR EXTENSION FOR THE APD ON THE ABOVE CAPTIONED WELL.					
Approved by the Utah Division of Oil, Gas and Mining Date: 09/07/2011 By:					
NAME (PLEASE PRINT) Valyn Davis		PHONE NUMBER 435 781-4369			
SIGNATURE N/A		TITLE Regulatory Affairs Analyst			
DATE 9/6/2011					



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047403410000

API: 43047403410000

Well Name: 12SWD-5-9-24

Location: 2033 FSL 0859 FWL QTR NWSW SEC 05 TWNP 090S RNG 240E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 9/8/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Valyn Davis

Date: 9/6/2011

Title: Regulatory Affairs Analyst **Representing:** QEP ENERGY COMPANY

RECEIVED Sep. 06, 2011

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 09 2012

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other: UNKNOWN OTH		5. Lease Serial No. UTU73456
2. Name of Operator QEP ENERGY COMPANY		6. If Indian, Allottee or Tribe Name
3a. Address 11002 EAST 17500 SOUTH VERNAL, UT 84078		7. If Unit or CA/Agreement, Name and/or No. UTU81308C
3b. Phone No. (include area code) Ph: 435-781-4369 Fx: 435-781-4395		8. Well Name and No. RWS 12SWD-5-9-24
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 5 T9S R24E NWSW 2033FSL 859FWL 40.063322 N Lat, 109.244344 W Lon		9. API Well No. 43-047-40341-00-X1
		10. Field and Pool, or Exploratory RED WASH
		11. County or Parish, and State UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

QEP ENERGY COMPANY HEREBY REQUESTS A TWO YEAR EXTENSION FOR THE APD ON THE ABOVE CAPTIONED WELL.

BLM APPROVAL DATE: 1/11/2010

CONDITIONS OF APPROVAL ATTACHED

VERNAL FIELD OFFICE
ENG. <i>RLH 1/30/12</i>
GEOL. _____
E.S. _____
PET. _____
REC. _____

RECEIVED
FEB 15 2012

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Electronic Submission #127586 verified by the BLM Well Information System For QEP ENERGY COMPANY, sent to the Vernal Committed to AFMSS for processing by ROBIN R. HANSEN on 01/27/2012 (12RRH1455SE)	
Name (Printed/Typed) VALYN DAVIS	Title REGULATORY AFFAIRS ANALYST
Signature _____ (Electronic Submission)	Date 01/09/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>[Signature]</i>	Title Assistant Field Manager Lands & Mineral Resources	FEB 03 2012 Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office VERNAL FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED

UDOGM

CONDITIONS OF APPROVAL

QEP ENERGY COMPANY

Notice of Intent APD Extension

Lease: UTU-73456
Well: RWS 12SWD-5-9-24
Location: NWSW Sec 5-T9S-R24E

An extension for the referenced APD is granted as requested with the following conditions:

1. The extension and APD shall expire on 01-11-2014.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73456
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: BIG VALLEY
1. TYPE OF WELL Water Disposal Well		8. WELL NAME and NUMBER: 12SWD-5-9-24
2. NAME OF OPERATOR: QEP ENERGY COMPANY		9. API NUMBER: 43047403410000
3. ADDRESS OF OPERATOR: 11002 East 17500 South , Vernal, Ut, 84078		9. FIELD and POOL or WILDCAT: BIG VALLEY
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2033 FSL 0859 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 05 Township: 09.0S Range: 24.0E Meridian: S		COUNTY: UINTAH STATE: UTAH
1. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/8/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
2. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> QEP ENERGY COMPANY HEREBY REQUESTS A ONE YEAR EXTENSION FOR THE APD ON THE ABOVE CAPTIONED WELL. </div> <div style="width: 35%; text-align: right;"> Approved by the Utah Division of Oil, Gas and Mining Date: September 13, 2012 By: </div> </div>		
NAME (PLEASE PRINT) Valyn Davis		PHONE NUMBER 435 781-4369
SIGNATURE N/A		TITLE Regulatory Affairs Analyst DATE 9/6/2012



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047403410000

API: 43047403410000

Well Name: 12SWD-5-9-24

Location: 2033 FSL 0859 FWL QTR NWSW SEC 05 TWNP 090S RNG 240E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 9/8/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Valyn Davis

Date: 9/6/2012

Title: Regulatory Affairs Analyst Representing: QEP ENERGY COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-73456
1. TYPE OF WELL Water Disposal Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: QEP ENERGY COMPANY		7. UNIT or CA AGREEMENT NAME: BIG VALLEY
3. ADDRESS OF OPERATOR: 11002 East 17500 South, Vernal, Ut, 84078		8. WELL NAME and NUMBER: 12SWD-5-9-24
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2033 FSL 0859 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 05 Township: 09.0S Range: 24.0E Meridian: S		9. API NUMBER: 43047403410000
PHONE NUMBER: 303 308-3068 Ext		9. FIELD and POOL or WILDCAT: BIG VALLEY
COUNTY: UINTAH		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/8/2014	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> ACIDIZE</div> <div style="width: 33%;"><input type="checkbox"/> ALTER CASING</div> <div style="width: 33%;"><input type="checkbox"/> CASING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TUBING</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL NAME</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL STATUS</div> <div style="width: 33%;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div style="width: 33%;"><input type="checkbox"/> CONVERT WELL TYPE</div> <div style="width: 33%;"><input type="checkbox"/> DEEPEN</div> <div style="width: 33%;"><input type="checkbox"/> FRACTURE TREAT</div> <div style="width: 33%;"><input type="checkbox"/> NEW CONSTRUCTION</div> <div style="width: 33%;"><input type="checkbox"/> OPERATOR CHANGE</div> <div style="width: 33%;"><input type="checkbox"/> PLUG AND ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> PLUG BACK</div> <div style="width: 33%;"><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div style="width: 33%;"><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div style="width: 33%;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div style="width: 33%;"><input type="checkbox"/> TEMPORARY ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> TUBING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> VENT OR FLARE</div> <div style="width: 33%;"><input type="checkbox"/> WATER DISPOSAL</div> <div style="width: 33%;"><input type="checkbox"/> WATER SHUTOFF</div> <div style="width: 33%;"><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div style="width: 33%;"><input checked="" type="checkbox"/> APD EXTENSION</div> <div style="width: 33%;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> <div style="width: 33%;"><input type="checkbox"/> OTHER</div> </div>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	
<input type="checkbox"/> SPUD REPORT Date of Spud:	
<input type="checkbox"/> DRILLING REPORT Report Date:	
OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

QEP ENERGY COMPANY HEREBY REQUESTS A ONE YEAR EXTENSION FOR
 THE APD ON THE ABOVE CAPTIONED WELL.

**Approved by the
 Utah Division of
 Oil, Gas and Mining**

Date: September 12, 2013

By:

NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst
SIGNATURE N/A	DATE 9/5/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047403410000

API: 43047403410000

Well Name: 12SWD-5-9-24

Location: 2033 FSL 0859 FWL QTR NWSW SEC 05 TWNP 090S RNG 240E MER S

Company Permit Issued to: QEP ENERGY COMPANY

Date Original Permit Issued: 9/8/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Valyn Davis

Date: 9/5/2013

Title: Regulatory Affairs Analyst Representing: QEP ENERGY COMPANY



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

August 12, 2014

Valyn Davis
QEP Energy Company
11002 East 17500 South
Vernal, UT 84078

43 047 403A1
12SWD-5-9-24
5. 95 24E

Re: APDs Rescinded for QEP Energy Company, Uintah County

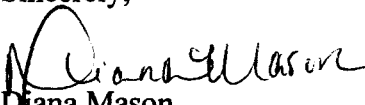
Dear Ms. Davis:

Enclosed find the list of APDs that you asked to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective August 5, 2014.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,


Diana Mason
Environmental Scientist

cc: Well File
Bureau of Land Management, Vernal

→ 43-047-39464 CWD 13D-32-8-24
43-047-40331 WV 7A-24-8-21
43-047-40341 RWS 12SWD-5-9-24
43-047-15207 RW 34-21A
43-047-15282 RW 34-28A
43-047-40356 NBZ 15D-30-8-24
43-047-40357 CWD 6D-32-8-24
43-047-40358 CWD 2D-32-8-24
43-047-40359 CWD 5D-32-8-24

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE
RECEIVED
VERNAL FIELD OFFICE

FORM APPROVED
OMB NO. 1040-0136
Expires: February 28, 1995

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

TYPE OF WORK

DRILL ☒

DEEPEN ☐

TYPE OF WELL

☐ OIL WELL ☐ GAS WELL ☒ OTHER ☒ SINGLE ZONE ☐ MULTIPLE ZONE

2. NAME OF OPERATOR

QUESTAR EXPLORATION & PRODUCTION, CO.

Contact: Rick Canterbury

E-Mail: rick.canterbury@questar.com

3. ADDRESS

11002 East 17500 South Vernal, Utah 84078

Telephone number

Phone 435-781-4362 Fax 435-781-4395

4. LOCATION OF WELL (Report location clearly and in accordance with and State requirements*)

At Surface 2033' FSL 859' FWL, NWSW Section 5, T9S, R24E

At proposed production zone

14. DISTANCE IN MILES FROM NEAREST TOWN OR POSTOFFICE*

35.4+/- MILES FROM VERNAL, UTAH

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.
(also to nearest drig, unit line if any)

859' +/-

16. NO. OF ACRES IN LEASE

1239.79

18. DISTANCE FROM PROPOSED location to nearest well, drilling, completed, applied for, on this lease, ft

25' +/-

19. PROPOSED DEPTH

1900'

21. ELEVATIONS (Show whether DF, RT, GR, ect.)

5127.0' GR

22. DATE WORK WILL START

ASAP

5. LEASE DESIGNATION AND SERIAL NO.

UTU-73456

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

N/A

7. UNIT AGREEMENT NAME

Big Valley

8. FARM OR LEASE NAME, WELL NO.

RWS 12SWD-5-9-24

9. API NUMBER:

43-047-40341

10. FIELD AND POOL, OR WILDCAT

Red Wash South

11. SEC., T, R, M, OR BLK & SURVEY OR AREA

SEC. 5, T9S, R24E S.L.B.M.

12. COUNTY OR PARISH

Uintah

13. STATE

UT

17. NO. OF ACRES ASSIGNED TO THIS WELL

40

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan
3. A surface Use Plan (if location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

SIGNED

Rick Canterbury

Name (printed/typed) Rick Canterbury

DATE 08/22/2008

TITLE

Regulatory Affairs

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

Application approval does not warrant or certify the applicant holds any legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

Stephen J. Howard

TITLE

Assistant Field Manager
Lands & Mineral Resources

DATE

1/11/10

*See Instructions On Reverse Side

VERNAL FIELD OFFICE

Title 18 U.S.C Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the

United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

NOS APD POSTED 9-2-08

AFMSS# 10CXSD0002A

UDOGM

CONDITIONS OF APPROVAL ATTACHED
RECEIVED

NO NOS

JAN 25 2010

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

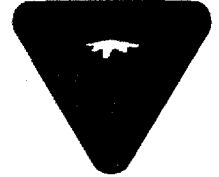


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Questar Exploration & Production, Co	Location:	NWSW, Sec. 5, T9S, R24E
Well No:	RWS 12SWD-5-9-24	Lease No:	UTU-73456
API No:	43-047-40341	Agreement:	Big Valley Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

UDOGM

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- During operations, if any vertebrate paleontological resources are discovered, all operations affecting such sites shall be immediately suspended, and all discoveries shall be left intact until authorized to proceed by the Authorized Officer. The appropriate Authorized Officer of the Vernal BLM office shall be notified within 48 hrs of the discovery, and a decision as to the preferred alternative/course of action will be rendered.
- All previous conditions of approval tied to the 12ML-5-9-24 shall be adhered to.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- None.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4.

Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 8

1595 WYNKOOP STREET
DENVER, CO 80202-1129
<http://www.epa.gov/region8>

JAN 12 2010

Ref: 8P-W-GW

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Rick Canterbury
Questar Exploration and Production Company
11002 East 17500 South
Vernal, UT 84078

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY

RECEIVED
JAN 21 2010
DIV. OF OIL, GAS & MINING

Re: FINAL Permit
EPA UIC Permit UT21193-08224
Well: RWS 12SWD 5-9-24
NWSW Sec. 5-T9S-R24E
Uintah County, UT
API No.: [NO API#]

43 047 40341

Dear Mr. Canterbury:

Enclosed is your copy of the FINAL Underground Injection Control (UIC) Permit for the proposed RWS 12SWD 5-9-24 injection well. A Statement of Basis that discusses the conditions and requirements of this EPA UIC Permit, is also included.

The Public Comment period for this Permit ended on **DEC 18 2009**. No comments on the Draft Permit were received during the Public Notice period; therefore the Effective Date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR) and are regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with all provisions of your Final Permit. The EPA forms referenced in the permit are available at <http://www.epa.gov/safewater/uic/reportingforms.html>. Guidance documents for Cement Bond Logging, Radioactive Tracer testing, Step Rate testing, Mechanical Integrity demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at http://www.epa.gov/region8/water/uic/deep_injection.html. Upon request, hard copies of the EPA forms and guidances can be provided.

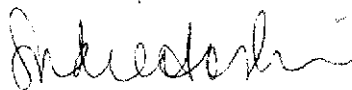


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This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this Permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed Final Permit or Statement of Basis, please call Jason Deardorff of my staff at (303) 312-6583, or toll-free at (800) 227-8917, ext. 312-6583.

Sincerely,


for Stephen S. Tuber
Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

enclosure: Final UIC Permit
Statement of Basis

cc: Uintah & Ouray Business Committee
Curtis Cesspooch, Chairman
Ronald Groves, Councilman
Irene Cuch, Vice-Chairwoman
Steven Cesspooch, Councilman
Phillip Chimburas, Councilman
Frances Poowegup, Councilwoman

Daniel Picard
BIA - Uintah & Ouray Indian Agency

Ferron Secakuku
Director, Natural Resources
Ute Indian Tribe

Larry Love
Director of Energy & Minerals Dept.
Ute Indian Tribe

Gil Hunt
Associate Director
Utah Division of Oil, Gas, and Mining



Fluid Minerals Engineering Office
BLM - Vernal Office



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 8

1595 Wynkoop Street
Denver, CO 80202-1129
Phone 800-227-8917
www.epa.gov/region08

NOV 23 2015

Ref: 8P-W-UIC

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Laura Abrams
QEP Resources
1050 17th Street, Suite 800
Denver, Colorado 80265

RE: Underground Injection Control
Permit Extensions for EPA Permits:
UT22275-10218 Well: RW 31-32B SWD
UT22276-10219 Well: RW 41-32B SWD
Uintah County, Utah

43-047-53998
43-047-53997

Dear Ms. Abrams:

5 95 24E

The U.S. Environmental Protection Agency Region 8 has reviewed your October 21, 2015, request for UIC permit extensions for the permits listed above. Your request was submitted in accordance with the requirements stipulated in Part II, Section A.5 of the permit. QEP Resources (QEP) is granted an extension until December 22, 2017. This extension is provided to allow QEP time to properly evaluate the conversion potential of these two wells.

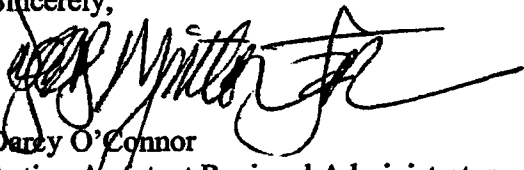
Regarding the other two wells in your request, those two final permits were approved in 2009. The EPA does not intend to extend these two permits, and anticipates a timely "permit cancellation request" for both of the following UIC permit numbers:

UT21241-08420 Well: FR 9P-20-14-20 (proposed conversion) 43-047-39461

* UT21193-08224 Well: RW 12SWD-5-9-24 (proposed new drill) 43-047-40341 *

Please remember that it is your responsibility to be aware of, and to comply with, all conditions of the permits. If you have any questions regarding this approval, please call Bruce Suchomel at (303) 312-6001 or (800) 227-8917, extension 312-6001.

Sincerely,


Darcy O'Connor
Acting Assistant Regional Administrator
Office of Partnerships and Regulatory Assistance

cc:

Uintah & Ouray Business Committee

**Honorable Shaun Chapoose, Chairman
Edred Secakuku, Vice-Chairman
Reannin Tapoof, Executive Assistant**

**Bartholomew Stevens, Superintendent
BIA - Uintah & Ouray Indian Agency**

**Bart Powaukee
Environmental Director
Ute Indian Tribe**

**Minnie Grant
Air Quality Coordinator
Ute Indian Tribe**

**Bruce Pargeets
Assistant Director of Energy & Minerals Dept.
Ute Indian Tribe**

**Brad Hill
Utah Division of Oil, Gas, and Mining**

**Robin Hansen
Fluid Minerals Engineering Office
BLM - Vernal Office**